

## Author Index to Vols 11-20

- A**
- Abshafen, M., Kowalski, J., Meyberg, M., Putlitz, G. zu, Slaby, J., Träger, F.: Neutral mass-selected lead cluster beams **19**, 199 (1991)
- Achiba, Y., Kittaka, C., Moriwaki, T., Shiramaru, H.: Evidence of linear chain for  $n \geq 10$  carbon negative ion clusters revealed by mass selected photodetachment spectroscopy **19**, 427 (1991)
- Achiba, Y. → Shiramaru, H.
- Ackermann, J., Helfrich, K.: Simultaneous ab initio calculations of isoelectronic diatomic molecules **18**, 365 (1991)
- Aguiar, J.A.O. de, Brom, H.B., Jongh, L.J. de, Schmid, G.: EPR on the high-nuclearity palladium cluster  $\text{Pd}_{561}\text{Phen}_{36}\text{O}_{200}$  **12**, 457 (1989)
- Aguiar, J.A.O. de → Jongh, L.J. de
- Aguiar, J.A.O. de → Santos, M.C. dos
- Ahlrichs, R., Brode, S., Buck, U., DeKieviet, M., Lauenstein, Ch., Rudolph, A., Schmidt, B.: The structure of  $\text{C}_2\text{H}_4$  clusters from theoretical interaction potentials and vibrational predissociation data **15**, 341 (1990)
- Ahlrichs, R. → Greer, J.C.
- Ahmad, S.A. → Rao, P.M.
- Ahmed, K. → Rafi, M.
- Alameddine, G. → Wang, C.R.C.
- Alber, G.: Coherent laser excitation of Rydberg states in a weak static magnetic field **14**, 307 (1989)
- Albiez, A., Thoma, M., Weber, W., Mehlhorn, W.:  $KL_{2,3}$  ionization in neon by electron impact in the range 1.5-50 keV: cross sections and alignment **16**, 97 (1990)
- Alhasan, A.M. → Fiutak, J.
- Alonso, J.A. → Baladrón, C.
- Alonso, J.A. → Iñiguez, M.P.
- Alonso, J.A. → Lammers, U.
- Alonso, J.A. → López, M.J.
- Alonso, J.A. → Mañanes, A.
- Alonso, J.A. → Robles, J.
- Alonso, J.A. → Rubio, A.
- Altenhein, C., Giorgio, S., Urban, J., Weiss, K.: Structure of supported palladium, silver and gold clusters **19**, 303 (1991)
- Amar, F.G., Perera, L.: Energetics and structure in  $\text{I}_2^-(\text{CO}_2)_n$  clusters **20**, 173 (1991)
- Amar, F.G. → Weerasinghe, S.
- Amblard, J. → Mostafavi, M.
- Amusia, M.Ya., Avdonina, N.B.: Intershell interaction in excited atom and ion photoionization **14**, 191 (1989)
- Amusia, M.Ya., Chernysheva, L.V., Ivanov, V.K., Kupchenko, V.A.: Photoionization of lanthanum and its ions in the region of the "giant" resonance **14**, 215 (1989)
- Amusia, M.Ya., Ivanov, V.K., Kupchenko, V.A.: The photoionization of atomic Eu in the vicinity of its giant resonance **14**, 219 (1989)
- Anagnostatos, G.S.: Multipotential model for atoms in alkali microclusters **19**, 121 (1991)
- Anagnostatos, G.S.: Small clusters made up of three kinds of neutral alkali atoms **19**, 125 (1991)
- Anagnostopoulos, D.F., Borchert, G.L., Gotta, D., Rashid, K.: K X-ray satellites of uranium bombarded with 500 MeV neon **18**, 139 (1991)
- Andersen, N. → Döwck, D.
- Andersen, N. → Nielsen, S.E.
- Andreeva, D. → Mitov, I.
- Andreoni, W.: Computer simulations of small semiconductor and metal clusters **19**, 31 (1991)
- Andreoni, W. → Röthlisberger, U.
- Andrić, L., Bissantz, H., Linder, F.: Direct photodissociation of  $\text{SO}^+$  via the  $1^4\Sigma^+$  state **13**, 147 (1989)
- Angelov, D.A. → Vidolova-Angelova, E.P.
- Angulo, J.C., Dehesa, J.S., Galvez, F.J.: New bounds for the atomic charge and momentum densities at the origin **18**, 127 (1991)
- Ansbacher, W. → Pinnington, E.H.
- Anton, M., Scharfner, K.-H., Hasselkamp, D., Scharmann, A.: Excitation of  $\text{He} - 4^1D$ -substates by  $\text{He}^+$ - and  $\text{Ne}^+$ -projectiles investigated by level-crossing techniques **18**, 53 (1991)
- Arimondo, E. → Kaiser, R.
- Arneberg, D.L. → Walters, E.A.
- Arnesen, A. → Villemoes, P.
- Arnold, E. → Neu, W.
- Arnold, S.T. → Lee, G.H.
- Arvanitis, D., Rabus, H., Wenzel, L., Baberschke, K.: Intramolecular resonances after K-shell excitation of  $\text{C}_2\text{H}_{2n}$  adsorbed on Ag and Cu(100) surfaces **11**, 219 (1989)
- Aspect, A. → Kaiser, R.
- Athanassenas, K. → Kandler, O.
- Athanassenas, K. → Leisner, T.
- Aufmuth, P., Henneberg, I., Siminski, A., Steudel, A.: Field shifts in hafnium II **18**, 107 (1991)
- Augustin, J., Müller, B., Greiner, W.: Spin exchange in low energy electron-ion collisions **14**, 317 (1989)
- Avaldi, L., Camilloni, R., Dal Cappello, C., Fainelli, E., Lahmam-Bennani, A., Stefani, G.: Ionisation dynamics at intermediate momentum transfer: an (e, 2e) investigation on argon **16**, 107 (1990)
- Avalos-Borja, M. → Garzón, I.L.
- Avdonina, N.B. → Amusia, M.Ya.
- Aydin, R., Stachowska, E., Johann, U., Dembczyński, J., Unkel, P., Ertmer, W.: Sternheimer free determination of the  $^{47}\text{Ti}$  nuclear quadrupole moment from hyperfine structure measurements **15**, 281 (1990)
- Aynacioglu, A.S., Meißner, A.-H., Walachowicz, F., Oppen, G. v.: Analysis of impact-excited  $\text{HeI}$  states by applying magnetic and electric depolarization techniques **18**, 85 (1991)
- B**
- Baberschke, K. → Arvanitis, D.
- Bachau, H., Lambropoulos, P.: Theory of single and double ionization of helium through two-photon excitation of the  $1^1S_0$  (1) doubly excited resonance **11**, 37 (1989)
- Baer, T. → Weitzel, K.-M.
- Bagus, P.S. → Pacchioni, G.
- Baladrón, C., Garcia, M.E., Stampfli, P., Bennemann, K.H.: Theory for the optical properties of small  $\text{Hg}_n$  clusters **19**, 215 (1991)
- Baladrón, C., López, J.M., Iñiguez, M.P., Alonso, J.A.: Coulomb explosion of charged jellium clusters **11**, 323 (1989)
- Balbás, L.C. → Mañanes, A.
- Balbás, L.C. → Rubio, A.
- Balbás, L.C. → Vega, A.
- Ballone, P., Milani, P.: Simulated annealing and collision properties of carbon clusters **19**, 439 (1991)
- Ballone, P. → Coulon, V. de
- Ballone, P. → Ortiz, G.
- Baluja, K.L. → Mohan, M.
- Bamberg, M., Wanczek, K.P.: A supersonic beam ion cyclotron resonance instrument for the study of van der Waals cluster ions **20**, 433 (1991)
- Bandow, S., Kimura, K.: Disappearance of long range spin-order in ultrafine magnetic particles **19**, 271 (1991)
- Banyai, L. → Uhrig, A.
- Barberán, N. → Serra, L.I.
- Barnett, R.N. → Jortner, J.
- Barranco, M. → Serra, L.I.
- Bartell, L.S., Dibble, Th.S.: Kinetics of

- phase changes in large molecular clusters **20**, 255 (1991)
- Bartell, L.S., French, R.J.: Electron diffraction studies of pulsed cluster beams **12**, 7 (1989)
- Bartsch, M. → Nickich, V.
- Bartschat, K., Goerss, H.-J., Nordbeck, R.-P.: Generalized STU-parameters for elastic electron scattering from thallium and lead atoms **17**, 25 (1990)
- Baudinet-Robinet, Y. → Garnir, H.P.
- Baudon, J. → Vassilev, G.
- Bayliss, S.C. → Binns, C.
- Bazin, D. → Bodeur, S.
- Bazzacco, D., Brandolini, F., Löwenich, K., Pavan, P., Rossi-Alvarez, C., De Poli, M., Haque, A.M.I.: Transient magnetic field for O, Ne, Mg, Si and S recoiling in Gd at low velocity **14**, 93 (1989)
- Bechthold, P.S.: The relation of cluster ion distributions to neutral cluster distributions in cluster beam experiments **20**, 115 (1991)
- Becker, C. → Burose, A.
- Becker, J., Rademann, K., Hensel, F.: Electronic structure of selenium- and tellurium-clusters **19**, 233 (1991)
- Becker, J., Rademann, K., Hensel, F.: Ultra-violet photoelectron studies of the molecules  $\text{Se}_3$ ,  $\text{Se}_6$ ,  $\text{Se}_7$  and  $\text{Se}_8$  with relevance to their geometrical structure **19**, 229 (1991)
- Becker, St. → Lindinger, M.
- Begemann, W., Hector, R., Liu, Y.Y., Tiggesbäumker, J., Meiwes-Broer, K.H., Lutz, H.O.: Sputtered metal and silicon cluster ions: collision-induced fragmentation and neutralization **12**, 229 (1989)
- Behmenburg, W., Ermers, A., Rebentrost, F.: Test of  $\text{BE}$ -interaction potentials in Na  $3P$ -rare gas systems from light scattering **18**, 93 (1991)
- Bekk, K. → Dembczyński, J.
- Bellamy, B. → De Gouveia, V.
- Belloni, J. → Mostafavi, M.
- Benamar, A., Rayane, D., Melinon, P., Tribollet, B., Broyer, M.: Comparison between selenium and tellurium clusters **19**, 237 (1991)
- Benamar, A. → Rayane, D.
- Benfield, R.E.: Magnetic properties and EPR spectroscopy of molecular metal clusters **12**, 453 (1989)
- Benfield, R.E., Creighton, J.A., Eadon, D.G., Schmid, G.: The relationship of  $\text{Au}_{55}(\text{PPh}_3)_{12}\text{Cl}_6$  to colloidal gold **12**, 533 (1989)
- Ben-Horin, N. → Jortner, J.
- Benneman, K.H. → Pastor, G.M.
- Bennemann, K.H. → Baladrón, C.
- Bennemann, K.H. → Garcia, M.E.
- Bennemann, K.H. → Mukherjee, S.
- Bennemann, K.H. → Reindl, S.L.
- Bennemann, K.H. → Stampfli, P.
- Benninghoven, A. → Feld, H.
- Bente, E.A.J.M., Hogervorst, W.: The  $5\text{dnd}$  and  $5\text{dng}$   $J=4$ , 3 and 2 and  $5\text{dms}$   $J=2$  series in barium: linewidths and line strengths **14**, 119 (1989)
- Bentzon, M.D., Kragh, F.: Ultra-fine particles of TiN **19**, 299 (1991)
- Berakdar, J., Klar, H., Brauner, M., Briggs, J.S.: An improved Born approximation for the electron impact ionization of atomic hydrogen **16**, 91 (1990)
- Berg, K.-J., Berger, A., Hofmeister, H.: Small silver particles in glass surface layers produced by sodium-silver ion exchange – their concentration and size depth profile **20**, 309 (1991)
- Berg, K.-J. → Berger, A.
- Berger, A., Berg, K.-J., Hofmeister, H.: Aggregates of small silver particles in surface layers of glasses – electron microscopy and optical microspectroscopy **20**, 313 (1991)
- Berger, A. → Berg, K.-J.
- Bergeret, C., Gallezot, P.: Structure flexibility of iridium metal aggregates. Comparison with platinum and rhodium **12**, 591 (1989)
- Bergeron, H., Valance, A., Morgan, T.J.: Calculation of highly excited autoionizing energy states of atomic sodium **14**, 293 (1989)
- Bergmann, K. → Littler, I.C.M.
- Bergmann, K. → Ziegler, G.
- Bergmann, T., Martin, T.P.: Electronic shell structure in Cs-O clusters **12**, 443 (1989)
- Bergmann, T. → Göhlich, H.
- Bergmann, T. → Lange, T.
- Bergmann, T. → Martin, T.P.
- Bergström, H., Faris, G.W., Hallstadius, H., Lundberg, H., Persson, A.: Investigations of radiative lifetimes in the  $3p\ 5p$  configuration of neutral silicon **13**, 29 (1989)
- Bergström, H., Peng, W.X., Persson, A.: Two different types of hollow-cathode discharges used for high resolution laser spectroscopy on copper **13**, 203 (1989)
- Berry, R.S.: Small clusters: between dynamics and thermodynamics **12**, 161 (1989)
- Bertsch, G.F., Oberhofer, N., Stringari, S.: Evaporation of atoms from metal clusters **20**, 123 (1991)
- Bhattacharya, J., Talukdar, B., Laha, U.: Studies in K-shell x-ray energy shift for a  $2p$  spectator vacancy **14**, 107 (1989)
- Bhattacharya, R. → Das, M.B.
- Biedermann, C. → Kemmler, J.
- Binns, C., Bayliss, S.C., Derbyshire, H.S.: Synchrotron radiation study of silver and chromium particles supported on graphite **20**, 391 (1991)
- Birjega, M.I., Popescu-Pogrión, N., Constantin, C.A.: Nanocrystals grown in amorphous Cr and CrNi thin films **20**, 369 (1991)
- Bissantz, H. → Andrić, L.
- Bissantz, H. → Hertzler, Ch.
- Bitto, H. → Hack, E.
- Bizau, J.-M. → Carré, B.
- Björnholm, S.: Concluding remarks **20**, 465 (1991)
- Björnholm, S., Borggreen, J., Echt, O., Hansen, K., Pedersen, J., Rasmussen, H.D.: The influence of shells, electron thermodynamics, and evaporation on the abundance spectra of large sodium metal clusters **19**, 47 (1991)
- Blaise, P. → Spiegelmann, F.
- Blaisten-Barojas, E., Khanna, S.N.: Model potential for beryllium clusters **12**, 77 (1989)
- Blaisten-Barojas, E. → Garzón, I.L.
- Blanc, J., Broyer, M., Chevaleyre, J., Dugourd, Ph., Kühling, H., Labastie, P., Ulbricht, M., Wolf, J.P., Wöste, L.: High resolution spectroscopy of small metal clusters **19**, 7 (1991)
- Blanke, J.H., Fricke, B., Heinemann, D., Sepp, W.-D., Thies, B., Göbenli, T., Heckmann, P.H., Möller, G., Träbert, E.: Study of  $3d-4f$  and  $3d-5f$  quartet and doublet transitions of doubly excited three-electron ions. Experiment and MCDF theory along the isoelectric sequence **13**, 1 (1989)
- Blanke, J.H. → Möller, G.
- Blanke, J.H. → Pinnington, E.H.
- Blanke, J.H. → Rashid, K.
- Blatter, F., Blazey, K.W.: Conduction electron spin resonance of silver clusters in zeolite Ag Y **18**, 427 (1991)
- Blau, W. → Horan, P.
- Blazey, K.W. → Blatter, F.
- Bloomfield, L.A., Conover, C.W.S., Yang, Y.A., Twu, Y.J., Phillips, N.G.: Experimental and theoretical studies of the structure of alkali halide clusters **20**, 93 (1991)
- Bloomfield, L.A., Yang, Y.A., Xia, P.: Evidence for the direct ejection of clusters from alkali-halides during laser vaporization **20**, 461 (1991)
- Bloomfield, L.A. → Bucher, J.P.
- Blümel, R.: Hetero charged ion clusters in a Paul trap **16**, 293 (1990)
- Blümel, R., Hillermeier, C., Smilansky, U.: Classical and quantum dynamical regimes in the bound space projected dynamics of strongly driven H Rydberg atoms **15**, 267 (1990)
- Blümke, T. → Meierkord, W.
- Bodeur, S., Maréchal, J.L., Reynaud, C., Bazin, D., Nenner, I.: Chlorine K shell photoabsorption spectra of gas phase HCl and  $\text{Cl}_2$  molecules **17**, 291 (1990)
- Boer, F.R. de → Huang, Y.K.
- Boggasch, E. → Elfers, M.
- Böhmer, H.-U., Peyerimhoff, S.D.: Stability and structure of singly-charged argon clusters  $\text{Ar}_n^+$ ,  $n=3-27$ . A Monte-Carlo simulation **11**, 239 (1989)
- Böhmer, H.-U. → Daskalopoulos, M.
- Bohr, J.: Epitaxial clusters in single crystal hosts **20**, 215 (1991)
- Boitiaux, J.P. → Guerrero, A.
- Boldyrev, A.I. → Weikert, H.-G.
- Bollen, G. → Lindinger, M.
- Bonačić-Koutecký, V., Fantucci, P., Gaus, J., Koutecký, J.: Quantum molecular interpretation of absorption spectra of small alkali metal clusters **19**, 37 (1991)
- Bonačić-Koutecký, V. → Fantucci, P.
- Bonačić-Koutecký, V. → Fantucci, P.
- Bonnelle, C. → Vergand, F.
- Booze, J.A. → Weitzel, K.-M.
- Borchert, G.L. → Anagnostopoulos, D.F.
- Borel, J.P. → Hall, B.
- Borel, J.-P. → Hall, B.D.
- Borel, J.P. → Pasche, S.
- Borggreen, J. → Björnholm, S.
- Borstel, G. → Lammers, U.
- Bosanac, S.D.: Anomalies of the rotational rainbow **11**, 81 (1989)
- Bosanac, S.D.: Time delay for resonances **15**, 17 (1990)

- Boschan, P., Gollisch, H.: Calculation of some atomic properties by gradient corrected density functional method **17**, 127 (1990)
- Bovin, J.-O., Malm, J.-O.: Atomic resolution electron microscopy of small metal clusters **19**, 293 (1991)
- Bowen, K.H. → Lee, G.H.
- Bowen, K.H. → McHugh, K.M.
- Bower, J.E. → Jarrold, M.F.
- Božić, M., Lombard, R., Marić, Z.: Remarks on the formulations of the adiabatic theorem **18**, 311 (1991)
- Brack, M., Genzken, O., Hansen, K.: Thermal electronic properties of alkali clusters **19**, 51 (1991)
- Brack, M. → Seidl, M.
- Brack, M. → Spina, M.E.
- Braga, M., Rosén, A., Larsson, S.: Electronic transitions in  $C_{60}$  and its ions **19**, 435 (1991)
- Brandenburg, W. → Dietrich, K.G.
- Brandolini, F. → Bazzacco, D.
- Bräuer, P., Heuchel, M., Szombathely, M. v.: Molecular statistical description of small thermodynamic systems: problems and possibilities **20**, 365 (1991)
- Brauner, M., Briggs, J.S., Klar, H.: Three-body dynamics in the reaction  $H(e, 2e) H^+$  at intermediate energies **11**, 257 (1989)
- Brauner, M. → Berakdar, J.
- Bréchnignac, C., Cahuzac, P., Leygnier, J., Pflaum, R., Roux, J.P., Weiner, J.: Stability of alkali-atom clusters **12**, 199 (1989)
- Bréchnignac, C., Cahuzac, Ph., Carlier, F., Frutos, M. de, Leygnier, J.: Simple metal clusters **19**, 1 (1991)
- Bréchnignac, C., Cahuzac, Ph., Carlier, F., Frutos, M. de, Masson, A., Roux, J.P.: Generation of rare earth metal clusters by means of the gas-aggregation technique **19**, 195 (1991)
- Bréchnignac, C., Cahuzac, Ph., Carlier, F., Leygnier, J., Hertel, I.V.: Charge exchange in alkali cluster collisions **17**, 61 (1990)
- Bréchnignac, P., Coutant, B.: Microsolvation of aniline by argon: fluorescence excitation and two photon resonant ionization of  $An-Ar_n$  in a supersonic jet **14**, 87 (1989)
- Bregel, T., Yench, A.J., Ruf, M.-W., Wai, H., Hotop, H.: Detailed electron spectroscopic study of the ionization of  $H_2$  by  $He^+(2^1S, 2^3S)$  **13**, 51 (1989)
- Brenn, R. → Charalambidis, D.
- Brentano, P. von → Müller, D.
- Brenten, H. → Schall, H.
- Breuer, H.P., Dietz, K., Holthaus, M.: Highly excited hydrogen atoms in strong microwave fields **18**, 239 (1991)
- Breuer, H.P., Holthaus, M.: Adiabatic processes in the ionization of highly excited hydrogen atoms **11**, 1 (1989)
- Brickman, R. → Cox, D.M.
- Brieu, M. → Gillet, M.F.
- Briggs, J.S. → Berakdar, J.
- Briggs, J.S. → Brauner, M.
- Briggs, J.S. → Marxer, H.
- Brink, D.M., Stringari, S.: Density of states and evaporation rate of helium clusters **15**, 257 (1990)
- Brode, S. → Ahlrichs, R.
- Bröker, G. → Fieber, M.
- Brom, H.B., Staveren, M.P.J. van, Jongh, L.J. de: The AC and DC conductivity in aggregates of ligand stabilized metal-cluster molecules **20**, 281 (1991)
- Brom, H.B. → Aguiar, J.A.O. de
- Brom, H.B. → Jongh, L.J. de
- Brom, H.B. → Staveren, M.P.J. van
- Brot, C.: Hydrogen bonded clusters of alcohol molecules in inert solvents: a chain statistics approach **11**, 249 (1989)
- Brown, K.M. → Fallgren, H.
- Broyer, M. → Benamar, A.
- Broyer, M. → Blanc, J.
- Broyer, M. → Rayane, D.
- Brüggemeyer, H., Pfeufer, V., Speckowius, G.:  $\Delta F = \pm 2$  transitions in the hyperfine spectrum of  $Er I$  **16**, 81 (1990)
- Brüssermann, M. → Meierkord, W.
- Buch, P. → Unkel, P.
- Bucher, J.P., Bloomfield, L.A.: Localization in small fcc-particles with surface irregularities and disorder **20**, 361 (1991)
- Bucher, J.P., Douglas, D.C., Xia, P., Haynes, B., Bloomfield, L.A.: Magnetic deflection of neutral metal clusters in a beam **19**, 251 (1991)
- Buck, U., Gu, X.J., Hobein, M., Krohne, R., Lauenstein, Ch., Linnartz, H., Rudolph, A.: IR-photodissociation of size selected molecular clusters and their structures **20**, 177 (1991)
- Buck, U., Hobein, M., Krohne, R., Linnartz, H.: Fragmentation by electron impact ionization and intracuster reactions of size selected  $(N_2H_4)_n$  and  $(OCS)_n$  clusters **20**, 181 (1991)
- Buck, U., Kesper, J., Lauenstein, C., Tolle, M., Winter, M.: Electron bombardment fragmentation of size selected molecular clusters **12**, 293 (1989)
- Buck, U., Lauenstein, Ch., Rudolph, A.: Internal excitation effects in the photodissociation of size selected ethylene and methanol dimers **18**, 181 (1991)
- Buck, U. → Ahlrichs, R.
- Budde, A. → Mahnke, R.
- Buenker, R.J. → Thümmel, H.
- Burkhardt, A. → Wedig, U.
- Burose, A., Becker, C., Ding, A.: Electron energy loss spectroscopy of van-der-Waals clusters **20**, 35 (1991)
- Burtscher, H., Müller, U., Schmidt-Ott, A.: Monitoring adsorption on small particles **12**, 563 (1989)
- Burtscher, H. → Schleicher, B.
- Busch, T., Schoeller, W.W.: Cyclic and linear analogues of  $N_2O$ . Theoretical evaluation of bonding properties **13**, 289 (1989)
- Butenko, A.V., Chubakov, P.A., Danilova, Yu.E., Karpov, S.V., Popov, A.K., Rautian, S.G., Safonov, V.P., Slabko, V.V., Shalaev, V.M., Stockman, M.I.: Nonlinear optics of metal fractal clusters **17**, 283 (1990)
- Buttet, J. → Coulon, V. de
- Buttet, J. → Harbich, W.
- Buttet, J. → Khanna, S.N.
- Buttet, J. → Moullet, I.
- Buurman, E.P. → Davidson, M.D.
- Bužek, V.: Sub-radiation versus super-radiation from a system of a spatially distributed two-level atoms **17**, 91 (1990)
- Cabaud, B. → Rayane, D.
- Cabaud, B. → Santos Aires, F.
- Cabaud, B. → Treilleux, M.
- Cahuzac, P. → Bréchnignac, C.
- Cahuzac, Ph. → Bréchnignac, C.
- Cameron, D. → Wang, C.R.C.
- Camilloni, R. → Avaldi, L.
- Campbell, E.E.B., Hülser, H., Witte, R., Hertel, I.V.: Near resonant transfer in  $Na(4D) + K^+ \rightarrow Na^+ + K^*$ : optical pumping of the  $Na(4D)$  state and energy dependence of rank 4 alignment **16**, 21 (1990)
- Car, R. → Kumar, V.
- Carlan, A. → Desrousseaux, G.
- Carlen, M. → Rymuza, P.
- Carlier, F. → Bréchnignac, C.
- Carlsson, J., Jönsson, P., Sturesson, L.: Accurate time-resolved laser spectroscopy on silver atoms **16**, 87 (1990)
- Carlsson, J., Sturesson, L.: Accurate time-resolved laser spectroscopy on lithium atoms **14**, 281 (1989)
- Carlsson, J., Sturesson, L., Svanberg, S.: Accurate time-resolved laser spectroscopy on sputtered metal atoms **11**, 287 (1989)
- Carnell, M., Peyerimhoff, S.D., Heß, B.A.: Ab initio MRD CI calculations on the cesium hydride ( $CsH$ ) molecule **13**, 317 (1989)
- Carré, B., d'Oliveira, P., Ferray, M., Four-nier, P., Gounand, F., Cubaynes, D., Bizau, J.-M., Willeumier, F.J.: Photoionization of highly excited atomic sodium involving core-excited resonances **15**, 117 (1990)
- Castleman, A.W. Jr., Harms, A.C., Leuchtner, R.E.: Gas phase reactivity of thermal metal clusters **19**, 343 (1991)
- Castleman, A.W. Jr. → Farley, R.W.
- Castleman, A.W. Jr. → Foltin, M.
- Castleman, A.W. Jr. → Guo, B.C.
- Castleman, A.W. Jr. → Wei, S.
- Castleman, A.W. Jr. → Ziemann, P.J.
- Castro, E.A. → Estrin, D.A.
- Castro, E.A. → Glossman, M.D.
- Cederbaum, L.S. → Weikert, H.-G.
- Cefalas, A.C. → Skordoulis, C.
- Češpiva, L. → Vojtik, J.
- Chai, Y. → Maruyama, S.
- Chapon, C. → Henry, C.R.
- Charalambidis, D., Feng, B.H., Fotakis, C.: Angular distributions of photoelectrons in resonantly enhanced multiphoton ionization via the  $7s[1^1/2]_0^0$  and  $8s[1^1/2]_0^0$  states of Xe **14**, 223 (1989)
- Charalambidis, D., Koulen, K.-J., Brenn, R.: Radiative and autoionization rates of the metastable  $2^4P_J^o$  states in lithiumlike neon **14**, 17 (1989)
- Charlé, K.P., Schulze, W., Winter, B.: The size dependent shift of the surface plasmon absorption band of small spherical metal particles **12**, 471 (1989)
- Châtelain, A. → Heer, W. de
- Châtelain, A. → Milani, P.
- Che, M. → Cheng, Z.X.
- Che, M. → De Gouveia, V.
- Chechin, V.A., Ermilova, V.K.: Anomalous density effect near the interface between two media **13**, 33 (1989)

- Chefi, C., Hila, F., Gillet, M.: Stresses induced in the deposit substrate interface during small particles growth **12**, 153 (1989)
- Chekmarev, S.F., Liu, F.S.: Some aspects of dynamic chaos in small Lennard-Jones clusters **20**, 231 (1991)
- Cheng, P.Y. → LaiHing, K.
- Cheng, Z.X., Louis, C., Che, M.: Nucleation and particle growth in the preparation of silica-supported nickel catalysts by a two-step procedure **20**, 445 (1991)
- Chernysheva, L.V. → Amusia, M.Ya.
- Cheshnovsky, O. → Markovich, G.
- Chevalere, J. → Blanc, J.
- Cheyssac, P. → Garrigos, R.
- Cheyssac, P. → Kofman, R.
- Chichkov, B.N., Peter, Th.: Resonant three-body recombination **17**, 123 (1990)
- Christodoulides, A.A. → Ioannidou-Phili, A.
- Chubakov, P.A. → Butenko, A.V.
- Ciancetto, M.C., Dellafiore, A., Matera, F.: Electric polarizability of small metal spheres **18**, 399 (1991)
- Cleff, B. → Meierkord, W.
- Coffman, J.D., Gallmann, M., Hertel, I.V.: Kinetic energy release of clusters after multiphoton ionisation with time of flight and electrostatic analyser techniques **12**, 297 (1989)
- Cohen, M.L. → Saito, S.
- Cohen-Tannoudji, C. → Kaiser, R.
- Colliex, C. → Ugarte, D.
- Conover, C.W.S. → Bloomfield, L.A.
- Conrad, N., Giebl, W., Leisner, C., Tietz, R., Langhoff, H.: Absorption spectroscopy of  $\text{Ar}_2(5p)$  in the  $^3\Sigma_g$  and  $^3\Pi_g$  states **16**, 71 (1990)
- Constantin, C.A. → Birjega, M.I.
- Coq, B., Figueras, F., Tazi, T.: Influence of the precursors on the properties of alumina supported rhodium particles **12**, 579 (1989)
- Coq, B. → Goursot, A.
- Cordes, J., Fritsche, L.: Ground state and excitational properties of atoms **13**, 345 (1989)
- Cosyns, J. → Guerrero, A.
- Coulon, V. de, Delaly, P., Ballone, P., Buttet, J., Reuse, F.: Structural and dynamical properties of magnesium microclusters **19**, 173 (1991)
- Coutant, B. → Bréchnignac, P.
- Cox, D.M., Brickman, R., Creegan, K., Kaldor, A.: Gold clusters: reactions and deuterium uptake **19**, 353 (1991)
- Cox, D.M., Eberhardt, W., Fayet, P., Fu, Z., Kessler, B., Sherwood, R.D., Sondericker, D., Kaldor, A.: Electronic structure of deposited monosized metal-clusters **20**, 385 (1991)
- Cox, D.M. → Gantefor, G.F.
- Crawford, J.E. → Drescher, A.
- Creegan, K. → Cox, D.M.
- Creighton, J.A. → Benfield, R.E.
- Crowe, A. → Donnelly, B.P.
- Cubaynes, D. → Carré, B.
- Czub, J., Fiutak, J., Miklaszewski, W.: On the scattering of a light pulse on a single atom perturbed by collisions with inert gas atoms. III. The  $S_{1/2} - P_{1/2, 3/2}$  transition **17**, 163 (1990)
- Dal Cappello, C. → Avaldi, L.
- Dalfovo, F.:  $^3\text{He}$  impurities on  $^4\text{He}$  clusters **14**, 263 (1989)
- Dalibart, M., Derouault, J.: UV-visible and Raman investigations of matrix isolated adducts between metal vapors of chromium and benzene: selective photoirradiations effects **12**, 489 (1989)
- Dalibart, M. → Derouault, J.
- Dam, N., Saunders, W.A.: Thermal broadening of plasmon absorption in potassium cluster ions **19**, 85 (1991)
- Dam, N. → Saunders, W.A.
- Dangendorf, V. → Wintermeyer, G.
- Danilova, Yu.E. → Butenko, A.V.
- Danzan, S. → Grum-Grzhimailo, A.N.
- Das, M.B., Bhattacharya, R.: Lifetime measurement of some levels belonging to  $3p^6 4p$  configuration of Ar II **14**, 25 (1989)
- Dasgupta, K. → Lindinger, M.
- Daskalopoulou, M., Böhrer, H.-U., Peyerimhoff, S.D.: Multi-reference configuration interaction calculations on the systems  $\text{Xe}_2^+$  and  $\text{Xe}_2^+$  **15**, 161 (1990)
- Daudey, J.P. → Ramirez-Solis, A.
- Davidson, M.D., Buurman, E.P., Dönszelmann, A.: Measurements on the quantum defect of the  $^2S$  Rydberg series and fine structure of the  $^2D$  Rydberg series in the gallium I spectrum **15**, 293 (1990)
- De Crescenzi, M., Lozzi, L., Picozzi, P., Santucci, S.: Core edge energy loss studies of Pd clusters on graphite **12**, 417 (1989)
- De Crescenzi, M. → Lozzi, L.
- De Gouveia, V., Bellamy, B., Hadj Romdhane, Y., Masson, A., Che, M.: Electronic effect induced by variation of size for Pd-clusters in 1,3-butadiene hydrogenation **12**, 587 (1989)
- De Poli, M. → Bazzacco, D.
- Deco, G., Grün, N.: An approximate description of the double capture process in  $\text{He}^{2+} + \text{He}$  collisions with static correlation **18**, 339 (1991)
- Dedonder-Lardeux, C., Jouvet, C., Martrenchard, S., Solgadi, D., Tramer, A.: A REMPI study of solvation of small  $\text{Hg}_n$  clusters by polar molecules **20**, 73 (1991)
- Dehesa, J.S. → Angulo, J.C.
- DeKieviet, M. → Ahlrichs, R.
- Delafosse, D. → Vergand, F.
- Delalić, Z., Erman, P., Källne, E.: Experimental lifetimes of the  $3p$  and  $3d$  states of neutral fluorine **17**, 87 (1990)
- Delaly, P. → Coulon, V. de
- Dellafiore, A. → Ciancetto, M.C.
- Dembczyński, J., Elantowska, M., Bekk, K., Rebel, H., Wilson, M.: Reanalysis of the Am I level spectrum and the nuclear quadrupole moments of Am-isotopes **13**, 181 (1989)
- Dembczyński, J. → Aydin, R.
- Dembczyński, J. → Unkel, P.
- Demtröder, W. → Foth, H.-J.
- Derbyshire, H.S. → Binns, C.
- Derouault, J., Dalibart, M.: Photo-induced inter-conversion reactions between atoms and small aggregates of chromium trapped in argon matrices **19**, 211 (1991)
- Derouault, J. → Dalibart, M.
- Desclaux, J.-P. → Rashid, K.
- Desfrancois, C., Schermann, J.P.: Energy transfer rates in inhomogeneous van der Waals clusters **20**, 185 (1991)
- Desrousseaux, G., Robrieux, B., Renou, A., Carlan, A., Schaffar, H., Gillet, M.: Comparison between the growth of gold particles onto MgO and amorphous carbon substrates by in situ electrical conductance measurements **12**, 23 (1989)
- Desrousseaux, G. → Robrieux, B.
- Deutscher, G. → Kofman, R.
- Dexter, J.L. → Eichmann, U.
- d'Humières, B. → Lignières, J.
- Dibble, Th.S. → Bartell, L.S.
- Dietrich, K.G., Hoffmann, D.H.H., Wahl, H., Haas, C.R., Kunze, H., Brandenburg, W., Noll, R.: Energy loss of heavy ions in a dense hydrogen plasma **16**, 229 (1990)
- Dietrich, K.-G. → Elfers, M.
- Dietz, K. → Breuer, H.P.
- Dilling, W., Schaefer, J.: Low temperature second virial coefficients of  $\text{H}_2 - \text{He}$  obtained from quantum mechanical pair correlation functions **13**, 207 (1989)
- Dimitrijević, M.S., Grujić, P., Simonović, N.: Fourfold ionization by electrons near the threshold **15**, 203 (1990)
- Dimitrijević, M.S. → Djurović, S.
- Dimitrijević, M.S. → Kršljanin, V.
- Ding, A.: Ionization dynamics of van-der-Waals clusters **12**, 253 (1989)
- Ding, A. → Burose, A.
- Ding, A. → Fieber, M.
- Djeniže, S., Srećković, A., Labat, J.: Stark width and shift of singly-ionized tin spectral lines **17**, 85 (1990)
- Djurović, S., Konjević, N.: Stark broadening and shift of neutral iodine lines and regularities for analogous transitions of halogen atoms **11**, 113 (1989)
- Djurović, S., Konjević, N., Dimitrijević, M.S.: Stark broadening of halogen atom lines from ( $^1D$ )  $np$  levels **16**, 255 (1990)
- Djurović, S. → Vujičić, B.T.
- d'Oliveira, P. → Carré, B.
- Doll, J.D. → Northby, J.A.
- Domcke, W. → Gertschke, P.L.
- Domcke, W. → Staib, A.
- Donnelly, B.P., Crowe, A.: Orientation of the  $3^3P$  state of helium excited by low energy electron impact **14**, 333 (1989)
- Dönszelmann, A. → Davidson, M.D.
- Dönszelmann, A. → Veer, W.E. v.d.
- Dorantes-Dávila, J. → Vega, A.
- Douglas, D.C. → Bucher, J.P.
- Dousse, J.-Cl. → Rymuza, P.
- Doverstål, M., Lindgren, B., Sassenberg, U., Yu, H.: Reaction of small carbon clusters with hydrogen during laser vaporization of graphite **19**, 447 (1991)
- Dowek, D., Houver, J.C., Richter, C., Andersen, N.: Collision spectroscopy with aligned and oriented atoms. IV. Neutralisation in  $\text{H}^- - \text{Na}(3s, 3p)$  collisions **18**, 231 (1991)
- Dreizler, R.M. → Lüdde, H.J.
- Dreizler, R.M. → Whelan, C.T.
- Dresch, T., Kramer, H., Thurner, Y., Weber,



- R.: Photoabsorption of sulfur dioxide cluster anions **20**, 57 (1991)
- Dresch, T., Kramer, H., Thurner, Y., Weber, R.: Photodissociation of sulfur dioxide cluster anions **18**, 391 (1991)
- Drescher, A., Kitching, J., Crawford, J.E., Lee, J.K.P., Thekkadath, G.: Studies of Sb and Bi cluster produced by laser desorption **19**, 203 (1991)
- Dubernet, M.L., McCarroll, R.: Rotational state dependence of ion-polar molecule reactions at very low temperature **13**, 255 (1989)
- Dubernet, M.L., McCarroll, R.: Rotational state dependence of rate constants for the reaction of ions with asymmetric top molecules at very low temperatures: application to the  $N^+/H_2O$  system **15**, 333 (1990)
- Dubov, D.Yu. → Vostrikov, A.A.
- Dufour, G. → Vergand, F.
- Dugourd, Ph. → Blanc, J.
- Dulieu, O.: Description of interelectronic correlation with the Pluvinage method. II. Energy levels of the alkali negative ions  $Li^-$ ,  $Na^-$ ,  $K^-$  **13**, 17 (1989)
- Dulieu, O., Le Sech, C.: Description of interelectronic correlation with the Pluvinage method. I. Application to doubly-excited states of helium and  $H^-$  **13**, 9 (1989)
- Dulieu, O. → Henriot, A.
- Dumont, P.D. → Garnir, H.P.
- Duncan, M.A. → LaiHing, K.
- Dunlap, B.I.: Symmetry and ferromagnetic clusters **19**, 255 (1991)
- Dunlap, B.I. → Rösch, N.
- Duriez, C. → Henry, C.R.
- Dusemund, B., Hoffmann, A., Salzmann, T., Kreibig, U., Schmid, G.: Cluster matter: the transition of optical elastic scattering to regular reflection **20**, 305 (1991)
- Dussert, C., Rasigni, G., Rasigni, M., Palmari, J., Llebaria, A.: Minimal spanning tree analysis of regular, random and cluster structures **12**, 41 (1989)
- Dy, K.S. → Singh, P.P.
- E**
- Eadon, D.G. → Benfield, R.E.
- Eaton, J.G. → Lee, G.H.
- Eaton, J.G. → McHugh, K.M.
- Eberhardt, W. → Cox, D.M.
- Echt, O. → Bjørnholm, S.
- Echt, O. → Kandler, O.
- Echt, O. → Leisner, T.
- Echt, O. → Michle, W.
- Ehrhardt, H. → Ziegler, G.
- Eichmann, U., Dexter, J.L., Xu, E.Y., Gallagher, T.F.: Microwave ionization and excitation of Ba Rydberg atoms **11**, 187 (1989)
- Eichmann, U. → Lange, V.
- Ekardt, W. → Penzar, Z.
- Ekardt, W. → Wassermann, B.
- El Himdy, A. → Garnir, H.P.
- Eland, J.H.D. → Lablanquie, P.
- Elantowska, M. → Dембczyński, J.
- Elbel, M. → Reese, C.
- Elbel, M. → Vermeulen, G.
- Elfers, M., Haas, C.R., Boggasch, E., Dietrich, K.-G., Hoffmann, D.H.H., Noll, R., Kunze, H., Herziger, G.: Z-pinch used as a plasma lens for heavy ion beams **18**, 207 (1991)
- Eller, M. → Naß, P.
- Ellis, D.E. → Wästberg, B.
- Engelke, F. → Kowalczyk, P.
- Engels, B., Peyerimhoff, S.D.: Study of orbital transformation in configuration interaction calculations of hyperfine coupling in nitrogen and the CH molecule **13**, 335 (1989)
- Erkoç, Ş.: Structural stability and energetics of C, Si, and Ge microclusters: empirical many-body potential energy function calculation **19**, 423 (1991)
- Erman, P. → Delalić, Z.
- Erners, A. → Behmenburg, W.
- Emilova, V.K. → Chechin, V.A.
- Ernesti, A., Korsch, H.J.: Collisional induced rotational excitation of N-atomic molecules. A N-centre scattering model with applications to electron-molecule collisions **16**, 201 (1990)
- Ernstberger, B., Krause, H., Neusser, H.J.: Metastable decay and binding energies of van der Waals cluster ions **20**, 189 (1991)
- Errea, L.F., Méndez, L., Riera, A.: Excitation and charge transfer in  $He^+ + H$  collisions. A molecular approach including a two-electron translation factor determined by the norm method **14**, 229 (1989)
- Ertmer, W. → Aydin, R.
- Ertmer, W. → Unkel, P.
- Estrin, D.A., Fernández, F.M., Castro, E.A.: Alternative treatment of rotational quantum systems **14**, 51 (1990)
- Extract of the 1988 Physics Abstracts Classification Scheme (PACS) **14**, 89 (1989)
- Extract of the 1988 Physics Abstracts Classification Scheme (PACS) **16**, 149 (1990)
- Even, U. → Jortner, J.
- Ewing, D.W.: Is  $C_4$  bent? **19**, 419 (1991)
- F**
- Fachrmann, J. → Siekmann, H.R.
- Fainelli, E. → Avaldi, L.
- Faisal, F.H.M. → Jetzke, S.
- Falecki, W., Hartmann, W., Wiorowski, P.: Time resolved multiple scattering of resonance photons. Comparison of experiments and Monte-Carlo simulations with solutions of a simple model **14**, 111 (1989)
- Fallgren, H., Brown, K.M., Martin, T.P.: Photoabsorption spectra of  $Cs_nO$  and  $Cs_n$  clusters **19**, 81 (1991)
- Fantucci, P., Bonačić-Koutecký, V., Koutecký, J.: General properties of the electronic structure of alkali metal clusters and  $I_n-II_n$  mixed clusters **12**, 307 (1989)
- Fantucci, P., Polezzo, S., Bonačić-Koutecký, V., Koutecký, J.: Core-valence correlation potentials based on density functional theory. Applications to valence-electron-only calculations on Na and K diatomics **13**, 355 (1989)
- Fantucci, P. → Bonačić-Koutecký, V.
- Fantucci, P. → Pacchioni, G.
- Farges, J. → Raoult, B.
- Farges, J. → Torchet, G.
- Faris, G.W. → Bergström, H.
- Farley, R.W., Ziemann, P., Castleman, A.W. Jr.: Investigation of the stabilities of neutral and ionic lead and lead-antimony clusters under single and multiphoton ionization conditions **14**, 353 (1989)
- Fauth, K., Kreibig, U., Schmid, G.: Optical plasmon losses in stabilized  $Au_{55}$  clusters **20**, 297 (1991)
- Fauth, K., Kreibig, U., Schmid, G.: Optical properties of systems containing  $Au_{55}$ -clusters **12**, 515 (1989)
- Fauth, K. → Kreibig, U.
- Fauth, K. → Quinten, M.
- Fayet, P. → Cox, D.M.
- Fayet, P. → Rivoal, J.C.
- Fedoseev, V.N. → Vidolova-Angelova, E.P.
- Fedrigo, S. → Harbich, W.
- Feld, H., Leute, A., Rading, D., Benninghoven, A., Schmid, G.: Secondary ion mass spectra of gold super clusters up to 140000 Dalton **17**, 73 (1990)
- Feldman, H. → Vager, Z.
- Feldmann, D. → Rottke, H.
- Feng, B.H. → Charalambidis, D.
- Feng Xu: Application of a  $H_2^+$ -like model to helium atom. Solution of the wave equation at the ground state **13**, 279 (1989)
- Feraudy, M.F. de → Raoult, B.
- Feraudy, M.F. de → Torchet, G.
- Fernández, F.M.: Transition probabilities for a time-dependent bilinear Hamiltonian with two harmonic limits **14**, 129 (1989)
- Fernández, F.M. → Estrin, D.A.
- Ferray, M. → Carré, B.
- Feser, M. → Goerke, A.
- Fišer, J. → Vojtík, J.
- Fieber, M., Bröker, G., Ding, A.: The photoionization dynamics of Ne clusters **20**, 121 (1991)
- Fiedler, J., Frey, L., Steigerwald, F., Langhoff, H., Griegel, T., Petkau, K., Hammer, W.: VUV-transitions in ionic rare-gas alkali molecules **11**, 141 (1989)
- Figger, H., Ketterle, W., Walther, H.: Spectroscopy of triatomic hydrogen. I. Bands near 5600, 5800 and 6025 Å **13**, 129 (1989)
- Figger, H. → Ketterle, W.
- Figger, H. → Lingling, C.
- Figueras, F. → Coq, B.
- Figueras, F. → Goursot, A.
- Finck, F. → Lègaré, P.
- Fink, M., Ross, A.W., Fink, R.J.: Cross sections and spin polarizations of electrons elastically scattered from oriented molecules ( $CH_3I$ ) **11**, 231 (1989)
- Fink, M. → Mihill, A.
- Fink, M. → Zhang, Y.
- Fink, R.J. → Fink, M.
- Fiutak, J., Kryszewski, S., Miklaszewski, W.: On the scattering of a light pulse on a single atom perturbed by collisions with inert gas atoms. II. The  $S_0-P_1$  transition **15**, 93 (1990)
- Fiutak, J., Miklaszewski, W., Alhasan, A.M.: The effect of hyperfine structure on the collisional relaxation of the thallium atom excited by laser beam. II. Transient population inversions **14**, 195 (1989)
- Fiutak, J. → Czub, J.

- Flad, J., Stoll, H., Nicklass, A., Preuss, H.: Quantum chemical investigations of the latent image formation. III. Adsorption of  $\text{Ag}_2^+$ ,  $\text{Ag}_2^-$ , and  $\text{Ag}_2^0$  ( $n \leq 2$ ) on a (100) silver bromide surface **15**, 79 (1990)
- Flüeli, M. → Hall, B.
- Foltin, M., Walder, G., Mohr, S., Scheier, P., Castleman, A.W. Jr., Märk, T.D.: Meta-stable decay of  $\text{Ar}_2^+$  involving single monomer evaporation and the loss of peculiar numbers of monomers **20**, 157 (1991)
- Foltin, M. → Walder, G.
- Fotakis, C. → Charalambidis, D.
- Foth, H.-J., Grees, J.M., Hertzler, Chr., Demtröder, W.: Sub-Doppler-spectroscopy of  $\text{Na}_3$  **18**, 257 (1991)
- Foth, H.-J. → Hertzler, Ch.
- Fournier, P. → Carré, B.
- Franke, G., Schulte, J.: Quantum mechanics and the structure of noble-gas clusters **12**, 65 (1989)
- Franosch, T., Soff, G.: The influence of the nuclear shape and of the muonic vacuum polarization on strongly bound electrons **18**, 219 (1991)
- Franzel, U. → Weidele, H.
- Franzreb, K., Wucher, A., Oechsner, H.: Absolute cross sections for electron impact ionization of  $\text{Ag}_2$  **19**, 77 (1991)
- Franzreb, K., Wucher, A., Oechsner, H.: Electron impact ionization of small silver and copper clusters **17**, 51 (1990)
- Freeman, D.L. → Northby, J.A.
- French, R.J. → Bartell, L.S.
- Frerichs, M.R.: Simulation of stochastic broadening processes in the theory of Stark-broadening **11**, 315 (1989)
- Frey, L. → Fiedler, J.
- Fricke, B. → Blanke, J.H.
- Fricke, B. → Neu, W.
- Fricke, B. → Rashid, K.
- Friedel, J.: Conclusions **12**, 605 (1989)
- Friedrich, B., Herschbach, D.R.: On the possibility of orienting rotationally cooled polar molecules in an electric field **18**, 153 (1991)
- Friedrich, K., Seifert, G., Großmann, G.: Nuclear magnetic shielding in molecules. The application of GIAO's in LCAO- $X_\alpha$ -calculations **17**, 45 (1990)
- Fricke, B. → Matzdorf, R.
- Fritzsche, H.G., Mittelbach, T., Mueller, E., Vogelsberger, W.: Particle size effects of clusters and crystallites **20**, 357 (1991)
- Fritzsche, L. → Cordes, J.
- Froben, F.W., Kolenda, J., Möller, K.: Fluorescence spectroscopy of laser vaporized species **12**, 485 (1989)
- Froben, F.W. → Rabin, I.
- Frutos, M. de → Bréchnignac, C.
- Fu, Z. → Cox, D.M.
- Fuchs, G. → Santos Aires, F.
- Fuchs, G. → Treilleux, M.
- Fujima, N., Yamaguchi, T.: Electronic states of Mn microclusters **19**, 185 (1991)
- Fujima, N. → Yamaguchi, T.
- Fuke, K. → Kaya, K.
- Furlan, A. → Leutwyler, S.
- G**
- Gadéa, F.X.: Theoretical study of the visible photodissociation spectrum of  $\text{Ar}_2^+$  **20**, 25 (1991)
- Gadre, S.R., Kulkarni, A., Limaye, A.C., Shirsat, N.: Some aspects of parallelization of two-electron integrals in molecular orbital programs **18**, 357 (1991)
- Gallagher, T.F. → Eichmann, U.
- Gallezot, P. → Bergeret, C.
- Gallmann, M. → Coffman, J.D.
- Galvez, F.J. → Angulo, J.C.
- Ganteför, G., Gausa, M., Meiwes-Broer, K.H., Lutz, H.O.: Photoemission from tin and lead cluster anions **12**, 405 (1989)
- Ganteför, G.F., Cox, D.M., Kaldor, A.: Applying ZEKE-spectroscopy to clusters **19**, 59 (1991)
- Ganz, J. → Yench, A.J.
- Gao, P.: The formation of penta-twinned gold particles **15**, 175 (1990)
- Gao, P.Y., Kunath, W., Gleiter, H., Weiss, K.: The structure of small penta-twinned gold particles **12**, 119 (1989)
- Gaponenko, S. → Uhrig, A.
- Garcia, M.E., Pastor, G.M., Bennemann, K.H.: On the transition from localized to delocalized electronic states in divalent-metal clusters **19**, 219 (1991)
- Garcia, M.E. → Baladrón, C.
- Garcias, F. → Serra, L.I.
- Garnir, H.P., Baudinet-Robinet, Y., Dumont, P.D., El Himdy, A.: Measurement of the ratio of the  $2s$  to the  $2p$  populations for beam-foil excited hydrogen **14**, 45 (1989)
- Garrigos, R., Cheyssac, P., Kofman, R.: Melting for lead particles of very small sizes; influence of surface phenomena **12**, 497 (1989)
- Garrigos, R. → Kofman, R.
- Garzón, I.L., Avalos-Borja, M.: Thermal decay of Lennard-Jones clusters **12**, 185 (1989)
- Garzón, I.L., Avalos-Borja, M., Blaisten-Barojas, E.: More on the melting of Lennard-Jones clusters **12**, 181 (1989)
- Garzón, I.L., Jelinek, J.: Melting of gold microclusters **20**, 235 (1991)
- Garzón, I.L., Long, X.P., Kawai, R., Weare, J.H.: Structure and dynamics of Lennard-Jones clusters with impurities **12**, 81 (1989)
- Garzón, I.L. → Jelinek, J.
- Garzón, I.L. → Román, C.E.
- Gassen, J. → Müller, D.
- Gasser, M. → Rymuza, P.
- Gaubatz, U. → Littler, I.C.M.
- Gaus, J. → Bonačić-Koutecký, V.
- Gausa, M. → Ganteför, G.
- Gayet, R., Hanssen, J., Martinez, A., Rivarola, R.: CDW and CDW-EIS investigations in an independent electron approximation for the resonant double electron capture by swift  $\text{He}^{2+}$  in helium **18**, 345 (1991)
- Gehlhoff, W. → Kreissl, J.
- Geisen, H., Neuschäfer, D., Ottinger, Ch.: LIF measurement of the vibrational dependence of the  $\text{N}_2(B^3\Pi_g)$  hyperfine splitting parameters **17**, 137 (1990)
- Genzken, O. → Brack, M.
- Gerber, A. → Schulz, C.P.
- Gerlich, D., Rox, T.: Association reactions with state selected ions at meV collision energies:  $\text{CO}^+(v=0, j) + 2\text{CO} \rightarrow (\text{CO})_2^+ + \text{CO}$  **13**, 259 (1989)
- Gertischke, P.L., Domcke, W.: Threshold peaks in the vibrational excitation of molecules by electron impact: a time-dependent view **16**, 189 (1990)
- Gerz, Ch., Wilsdorf, D., Werth, G.: Measurement of the  $^4\text{He}-\text{D}_2$  mass difference **17**, 119 (1990)
- Gerz, Ch. → Roth, A.
- Ghosh, A.S. → Mukherjee, T.
- Giardini Guidoni, A., Mele, A., Pizzella, G., Teghli, R.: Metal carbide clusters formed by laser ablation of metal oxide-graphite systems **20**, 89 (1991)
- Giebl, W. → Conrad, N.
- Gillet, E., Matolin, V.: Structure of the CO bond on supported Pd particles: influence of size and surface state **19**, 361 (1991)
- Gillet, E. → Kruse, N.
- Gillet, M. → Chefi, C.
- Gillet, M. → Desrousseaux, G.
- Gillet, M. → Regnier, S.
- Gillet, M. → Ricci, M.
- Gillet, M. → Robrieux, B.
- Gillet, M.F., Brieu, M.: Structure investigation of multiply-twinned Ni particles by electron investigation **12**, 107 (1989)
- Gillet, M.F. → Renou, A.
- Gilyova, V.P. → Vostrikov, A.A.
- Gingerich, K.A. → Shim, I.
- Giniger, R. → Markovich, G.
- Giorgio, S., Urban, J.: Structural investigations of metal clusters by HREM **12**, 115 (1989)
- Giorgio, S. → Altenhein, C.
- Gleiter, H. → Gao, P.Y.
- Glossman, M.D., Castro, E.A.: Atomic calculations through a modified Thomas-Fermi-Dirac-Weizsäcker theory **13**, 89 (1989)
- Gnutzmann, V., Vogel, W.: Surface oxidation and reduction of small platinum particles observed by in-situ X-ray diffraction **12**, 597 (1989)
- Göbenli, T. → Blanke, J.H.
- Godone, A. → Novero, C.
- Goerke, A., Feser, M., Palm, H., Schulz, C.P., Hertel, I.V.: Spectroscopy of size-selected sodium clusters **19**, 137 (1991)
- Goerke, A. → Haugstatter, R.
- Goerss, H.-J. → Bartschat, K.
- Göhlich, H., Lange, T., Bergmann, T., Martin, T.P.: Investigation of large electronic shells in Cs-compound clusters **19**, 117 (1991)
- Göhlich, H. → Lange, T.
- Göhlich, H. → Martin, T.P.
- Goll, G., Löhneysen, H. v., Kreibitz, U., Schmid, G.: Low-temperature specific heat of the cluster compound  $\text{Au}_{55}(\text{P}(\text{C}_6\text{H}_5)_3)_{12}\text{Cl}_6$  **20**, 329 (1991)
- Gollisch, H. → Boschan, P.
- Görling, A. → Rösch, N.
- Görnert, P. → Rösler, M.
- Goto, T., Komori, F., Kobayashi, S.: Anomalous nuclear spin-lattice relaxation in copper small particles **12**, 415 (1989)

- Gotta, D. → Anagnostopoulos, D.F.  
 Gounand, F. → Carré, B.  
 Gourso, A., Coq, B., Ménorval, L.C. de, Tazi, T., Figueras, F., Salahub, D.R.: Topological segregation in small bimetallic particles **19**, 367 (1991)  
 Greer, J.C., Ahrichs, R., Hertel, I.V.: Proton transfer in ammonia cluster cations: molecular dynamics in a self consistent field **18**, 413 (1991)  
 Grees, J.M. → Foth, H.-J.  
 Grein, F. → Meier, U.  
 Greiner, W. → Augustin, J.  
 Greiner, W. → Mehler, G.  
 Griegel, T. → Fiedler, J.  
 Grill, V. → Walder, G.  
 Grillet, Y. → Guerrero, A.  
 Grisolia, C. → Rivoal, J.C.  
 Grobet, P.J., Martens, L.R.M., Vermeiren, W.J.M., Huybrechts, D.R.C., Jacobs, P.A.: Sodium clusters in zeolites **12**, 37 (1989)  
 Groeneveld, K.O. → Kemmler, J.  
 Grosse, P. → Sturm, J.  
 Grosser, J., Schnecke, A., Voigt, H.: An ab initio treatment of inelastic H+Ne collisions at low energy **17**, 251 (1990)  
 Großmann, G. → Friedrich, K.  
 Grover, J.R. → Walters, E.A.  
 Grujić, P., Koledin, D.: Simultaneous excitation-detachment functions for the electron-negative hydrogen ion collisions near the threshold **14**, 327 (1989)  
 Grujić, P. → Dimitrijević, M.S.  
 Grum-Grzhimailo, A.N., Danzan, S., Lhagva, O., Strakhova, S.I.: Resonances in angular distribution of secondary photons from an excited atom in the ( $e+A^+$ ) recombination **18**, 147 (1991)  
 Grün, N. → Deco, G.  
 Grün, N. → Momberger, K.  
 Gspann, J.: Large clusters of cesium from pure vapor expansions **20**, 421 (1991)  
 Gu, X.J. → Buck, U.  
 Guerrero, A., Reading, M., Grillet, Y., Rouquerol, J., Boitiaux, J.P., Cosyns, J.: Influence of dispersion on the energies of adsorption: H<sub>2</sub>, CO, propylene and propyne on supported Pd or Pt **12**, 583 (1989)  
 Guilleux, M.F. → Vergand, F.  
 Guo, B.C., Castleman, A.W. Jr.: The clustering reactions of Na<sup>+</sup> and Pb<sup>+</sup> with several important ligands **19**, 397 (1991)  
 Guthöhrlein, G.H., Keller, H.P.: Doppler-free laserspectroscopic investigations of hyperfine structure in the atomic cobalt spectrum **17**, 181 (1990)  
 Güvenc, Z.B. → Jellinek, J.  
 Haberland, H., Langosch, H.: Mercury clusters: jellium-like mass spectra and threshold laws for electron impact ionisation **19**, 223 (1991)  
 Haberland, H., Ludewigt, C., Richter, T.: Electron attachment to clusters composed of closed shell, hydrogen containing molecules **12**, 289 (1989)  
 Haberland, H. → Lee, G.H.  
 Hack, E., Bitto, H., Huber, J.R.: Stark quantum beat spectroscopy of polyatomic molecules **18**, 33 (1991)  
 Hadj Romdhane, Y. → De Gouveia, V.  
 Hagelberg, F., Speidel, K.-H., Tandon, P.N.: Spin exchange scattering as the most likely polarization mechanism in transient magnetic fields **17**, 17 (1990)  
 Hagena, O.F.: Formation of silver clusters in nozzle expansions **20**, 425 (1991)  
 Hagena, O.F.: Silver clusters from nozzle expansions (Rapid note) **17**, 157 (1990)  
 Håkansson, J., Niklasson, G.A.: Multifractal analysis of gas evaporated metal particle aggregates **20**, 317 (1991)  
 Halenka, J.: Asymmetry of hydrogen lines in plasmas utilizing a statistical description of ion-quadrupole interaction in Mozer-Baranger limit **16**, 1 (1990)  
 Halenka, J. → Vujčić, B.T.  
 Halicioglu, T.: Energy barriers and structural transitions of small Al clusters **12**, 73 (1989)  
 Halicioglu, T.: Structural properties of 3-dimensional carbon clusters **19**, 443 (1991)  
 Hall, B., Flüeli, M., Monot, R., Borel, J.P.: Electron diffraction on unsupported ultra-fine silver particles **12**, 97 (1989)  
 Hall, B.D., Reinhard, D., Borel, J.-P., Monot, R.: An electron diffraction apparatus for small particle beams **20**, 457 (1991)  
 Hallin, R. → Villemoes, P.  
 Hallstadius, H. → Bergström, H.  
 Hammer, W. → Fiedler, J.  
 Hanke, W.: Über magnetische Beeinflussung der Polarisation der Resonanzfluoreszenz **18**, 5 (1991)  
 Hanne, G.F. → Nickich, V.  
 Hansen, K. → Bjørnholm, S.  
 Hansen, K. → Brack, M.  
 Hanssen, J. → Gayet, R.  
 Hanssen, J. → Whelan, C.T.  
 Haque, A.M.I. → Bazzacco, D.  
 Harbich, W., Fedrigo, S., Buttet, J., Lindsay, D.M.: Optical spectroscopy on size selected gold clusters deposited in rare gas matrices **19**, 157 (1991)  
 Harbich, W. → Hippler, R.  
 Harbich, W. → Lindsay, D.M.  
 Harms, A.C. → Castleman, A.W. Jr.  
 Harth, K., Ruf, M.-W., Hotop, H.: Electron transfer from laser excited Rydberg atoms to molecules. Absolute rate constants at low and intermediate principal quantum numbers **14**, 149 (1989)  
 Hartley, A.C., Mårtensson-Pendrill, A.M.: Relativistic correlation effects on the hyperfine structure and electric dipole transitions in Cs and Ti **15**, 309 (1990)  
 Hartmann, A., Poth, L., Weil, K.G.: enthalpies of formation of gaseous Zintl-molecules over sodium-tellurium alloys **19**, 181 (1991)  
 Hartmann, A., Weil, K.G.: Equilibrium intermetallic particles in the gas phase - A Knudsen cell mass spectrometric study **12**, 11 (1989)  
 Hartmann, W. → Fałęcki, W.  
 Hasegawa, H., Satoh, N., Tsujii, K., Kimura, K.: Fractal analysis of the coalescence process of Au nano-meter particles dispersed in 2-propanol **20**, 325 (1991)  
 Hasselkamp, D. → Anton, M.  
 Haub, G. → Keim, M.  
 Haufler, R.E. → Maruyama, S.  
 Haugstätter, R., Goerke, A., Hertel, I.V.: Case studies in multiphoton ionisation and dissociation of Na<sub>2</sub>. III. Dissociative ionisation **16**, 61 (1990)  
 Haynes, B. → Bucher, J.P.  
 Heckmann, P.H. → Blanke, J.H.  
 Heckmann, P.H. → Möller, G.  
 Heckmann, P.H. → Pinnington, E.H.  
 Hector, R. → Begemann, W.  
 Heer, W. de, Milani, P., Châtelain, A.: Magnetic properties of free alkali and transition metal clusters **19**, 241 (1991)  
 Heer, W. de → Milani, P.  
 Heer, W.A. de, Milani, P.: An improved laser vaporization cluster source and time-of-flight mass spectrometer **20**, 437 (1991)  
 Heer, W.A. de → Selby, K.  
 Hegemann, T. → Nickich, V.  
 Heidenreich, A., Schek, I., Scharf, D., Jortner, J.: Temperature jump induction of isomerization dynamics of alkali halide clusters **20**, 227 (1991)  
 Heijkenskjöld, F. → Villemoes, P.  
 Heijmen, B. → Liedenbaum, C.  
 Heil, O. → Kemmler, J.  
 Heinemann, D. → Blanke, J.H.  
 Heinzmann, U. → Kessler, B.  
 Helfrich, K.: Extended universal correlation diagrams for the quantum mechanical one-electron two-centre problem **13**, 295 (1989)  
 Helfrich, K. → Ackermann, J.  
 Heller, E.J., Manz, J.: Dissociation of symmetry-adapted local modes studied by FFT-propagation of bond-adapted wavefunctions **13**, 281 (1989)  
 Henne, A. → Lüdde, H.J.  
 Henneberg, I. → Aufmuth, P.  
 Hennecart, D. → Kucal, H.  
 Henriët, A., Masnou-Séeuws, F., Dulieu, O.: Diabatic representation for the excited states of the Na<sub>2</sub> molecule: application to the associative ionization reaction between two excited sodium atoms **18**, 287 (1991)  
 Henry, C.R., Chapon, C., Duriez, C.: Adsorption-desorption kinetics on epitaxially oriented palladium clusters **19**, 347 (1991)  
 Henry, C.R., Chapon, C., Penisson, J.M., Nihoul, G.: Structure of small palladium particles studied by HRTEM **12**, 145 (1989)  
 Henry, C.R., Poppa, H.: Auger and electron energy loss spectroscopies of small palladium particles supported on (111) oriented MgO films **12**, 421 (1989)  
 Hensel, F. → Becker, J.  
 Hensel, F. → Rademann, K.

## H

- Hergenröder, R. → Obrebski, A.  
 Hering, P. → Vivie-Riedle, R. de  
 Herman, Z. → Walder, G.  
 Hermann, G., Lasnitschka, G., Richter, J., Scharmann, A.: Level-crossing experiments by two-photon excitation **18**, 11 (1991)  
 Hermann, A., Werth, G.: Collisional de-excitation of the metastable  $D$ -states of  $Ba^+$  by He, Ne,  $N_2$  and  $H_2$  **11**, 301 (1989)  
 Herrmann, R. → Kamke, B.  
 Hersbach, H., Ruijgrok, Th.W.: A quasipotential theory for the relativistic hydrogen atom **18**, 209 (1991)  
 Herschbach, D.R. → Friedrich, B.  
 Hertel, I.V. → Bréchnignac, C.  
 Hertel, I.V. → Campbell, E.E.B.  
 Hertel, I.V. → Coffman, J.D.  
 Hertel, I.V. → Goerke, A.  
 Hertel, I.V. → Greer, J.C.  
 Hertel, I.V. → Haugstätter, R.  
 Hertel, I.V. → Kaiser, E.  
 Hertel, I.V. → Kamke, B.  
 Hertel, I.V. → Kamke, W.  
 Hertel, I.V. → Schulz, C.P.  
 Hertzler, Ch., Bissanz, H., Foth, H.-J., Linder, F.: Photofragment spectroscopy of  $N_2^+$  in the near UV **15**, 151 (1990)  
 Hertzler, Chr. → Foth, H.-J.  
 Herziger, G. → Elfers, M.  
 Heß, B. → Windholz, L.  
 Heß, B.A. → Carnell, M.  
 Heß, B.A. → Jansen, G.  
 Heuchel, M. → Bräuer, P.  
 Hila, F. → Chéfi, C.  
 Hillermeier, C. → Blümel, R.  
 Himmel, G. → Hirsch, S.  
 Hippler, R., Plotzke, O., Harbich, W., Madeheim, H., Kleinpoppen, H., Lutz, H.O.: Coherent excitation of  $H(n=2)$  in  $H^+$ ,  $H-He$  collisions **18**, 61 (1991)  
 Hippler, R., Schwier, H., Jetzke, S., Lutz, H.O.: Photoelectron-spectroscopy of multi-photon ionization of rare gases with circularly and linearly polarized light **11**, 199 (1989)  
 Hippler, R. → Madeheim, H.  
 Hirsch, S., Himmel, G.: The high-frequency Stark effect in the Balmer line  $D$ -alpha **16**, 35 (1990)  
 Ho, Y.K.: Resonances in helium atoms associated with the  $N=4$  and  $N=5$   $He^+$  thresholds **11**, 277 (1989)  
 Hoareau, A. → Rayane, D.  
 Hoareau, A. → Santos Aires, F.  
 Hoareau, A. → Treilleux, M.  
 Hobein, M. → Buck, U.  
 Höckstaller, M. → Riefer, G.  
 Hoehne, M. → Kreissl, J.  
 Hoffmann, A. → Dusemund, B.  
 Hoffmann, D.H.H. → Dietrich, K.G.  
 Hoffmann, D.H.H. → Elfers, M.  
 Hofmann, G., Müller, A., Tinschert, K., Salzborn, E.: Indirect processes in the electron-impact ionization of Li-like ions **16**, 113 (1990)  
 Hofmann, G. → Müller, A.  
 Hofmeister, H.: Lattice defects in decahedral multiply twinned particles of palladium **19**, 307 (1991)  
 Hofmeister, H. → Berg, K.-J.  
 Hofmeister, H. → Berger, A.  
 Hofste, J. → Meierkord, W.  
 Hogervorst, W. → Bente, E.A.J.M.  
 Hogervorst, W. → Lahaye, C.T.W.  
 Hoheisel, W., Schulte, U., Vollmer, M., Träger, F.: Optical spectra and laser-induced dissociation of supported Na particles **20**, 381 (1991)  
 Hoheisel, W., Schulte, U., Vollmer, M., Weidenauer, R., Träger, F.: Dissociation of small metal particles induced by surface plasmon excitation with laser light **12**, 245 (1989)  
 Holthaus, M. → Breuer, H.P.  
 Hoover, T. → Wang, C.R.C.  
 Höpfel, R.A. → Walder, G.  
 Horan, P., Blau, W.: Nonlinear optics in quantum confined semiconductor particles **12**, 501 (1989)  
 Hornburger, H.: Nonradiative transitions in benzene. III. Influence of the non-Condon effect on the excess energy dependence of the rate **11**, 129 (1989)  
 Hotop, H. → Bregel, T.  
 Hotop, H. → Harth, K.  
 Hotop, H. → Kraft, T.  
 Hotop, H. → Schohl, S.  
 Hotop, H. → Yench, A.J.  
 Houver, J.C. → Dowek, D.  
 Howorka, F. → Stamatovic, A.  
 Howorka, F. → Walder, G.  
 Huang, Y.K., Menovsky, A.A., Boer, F.R. de: Spontaneous coalescence in ultra-fine metal particle aggregates **20**, 293 (1991)  
 Huber, B.A. → Jogwich, M.  
 Huber, B.A. → Lebius, H.  
 Huber, J.R. → Hack, E.  
 Hubrich, M., Knab, H., Knöll, K.H., Werth, G.: Ground- and excited state  $g$ -factors of  $Ba^+$  **18**, 113 (1991)  
 Hug, H. → Schleicher, B.  
 Hülser, H. → Campbell, E.E.B.  
 Hunter, J. → Wang, C.R.C.  
 Husain, M.R. → Rafi, M.  
 Hutton, R. → Träbert, E.  
 Huybrechts, D.R.C. → Grobet, P.J.
- I**
- Ichihara, T. → Katakuse, I.  
 Ichihashi, M. → Ozaki, Y.  
 Ijiri, Y. → Jarrold, M.F.  
 Ikezaki, Y. → Sakaue, H.A.  
 Iñiguez, M.P., Lopez, M.J., Alonso, J.A., Soler, J.M.: Electronic and atomic structure of Na, Mg, Al and Pb clusters **11**, 163 (1989)  
 Iñiguez, M.P. → Baladrón, C.  
 Iñiguez, M.P. → López, M.J.  
 Iñiguez, M.P. → Mañanes, A.  
 Iñiguez, M.P. → Robles, J.  
 Insepov, Z.A., Karatajev, E.M., Norman, G.E.: The kinetics of condensation behind the shock front **20**, 449 (1991)  
 Insepov, Z.A., Zhankadamova, A.M.: Molecular dynamics calculation of the sticking coefficient of gases to surfaces **20**, 145 (1991)  
 Insepov, Z.A., Zheludkov, S.V.: Molecular kinetics of cluster formation in the dense fluids **20**, 453 (1991)  
 Ioannidou-Phili, A., Christodoulides, A.A.: Silicon transitions,  $3p^2 \rightarrow 3pnf$  ( $n=4,5$ ) and  $3p^2 \rightarrow 3p6p$ , detected in the multi-photon dissociation of phenylsilane **16**, 271 (1990)  
 Irion, M.P., Selinger, A., Schnabel, P.: FTMS studies of sputtered metal cluster ions (IV): size-selective effects in the chemistry of  $Fe_n^+$  with  $NH_3$  and  $Pd_n^+$  with  $D_2$  or  $C_2H_4$  **19**, 393 (1991)  
 Ishida, T. → Saito, Y.  
 Ishii, Y. → Nakamura, M.  
 Ishii, Y. → Sugano, S.  
 ISOLDE Collaboration, → Neu, W.  
 ISOLDE Collaboration, → Silverans, R.E.  
 Ito, H. → Katakuse, I.  
 Ito, H. → Saito, Y.  
 Ito, K. → Lablanquie, P.  
 Ivanov, V.K. → Amusia, M.Ya.
- J**
- Jackschath, C. → Rabin, I.  
 Jacobs, P.A. → Grobet, P.J.  
 Jäger, H. → Windholz, L.  
 Jakubaša-Amundsen, D.H.: Relativistic theory for  $K$ -shell ionisation by fast electrons **11**, 305 (1989)  
 Jansen, G., Heß, B.A.: Relativistic all electron configuration interaction calculation of ground and excited states of the gold hydride molecule **13**, 363 (1989)  
 Jarrold, M.F., Bower, J.E.: Chemisorption and chemical reactions on size selected clusters **12**, 551 (1989)  
 Jarrold, M.F., Ray, U., Ijiri, Y.: Silicon clusters: chemistry and structure **19**, 337 (1991)  
 Jellinek, J., Garzón, I.L.: Structural and dynamical properties of transition metal clusters **20**, 239 (1991)  
 Jellinek, J., Güvenc, Z.B.: Dissociative chemisorption of  $D_2$  on a  $Ni_{13}$  cluster **19**, 371 (1991)  
 Jellinek, J. → Garzón, I.L.  
 Jellinek, J. → Li, D.H.  
 Jena, P. → Liu, F.  
 Jena, P. → Rao, B.K.  
 Jerger, Th. → Riefer, G.  
 Jertz, R. → Lindinger, M.  
 Jetzke, S., Zaremba, J., Faisal, F.H.M.: Electron impact ionization of atomic hydrogen **11**, 63 (1989)  
 Jetzke, S. → Hippler, R.  
 Jiang, Z., Jönsson, P., Larsson, J., Svanberg, S.: Studies on radiative lifetimes in the  $4d^{10}ns^2S$  and  $4d^{10}nd^2D$  sequences of neutral silver **17**, 1 (1990)  
 Jogwich, M., Huber, B.A., Wiesemann, K.: A spectroscopic study of double electron transfer from Cu to Ar III in an ECR-microwave discharge **17**, 171 (1990)  
 Johann, U. → Aydin, R.  
 Johann, U. → Unkel, P.  
 Jonas, R., Staemmler, V.: CEPA calculations of potential energy surfaces for open-shell systems. VII. The  $1^3A'$  and  $2^3A''$  states of  $NH(A^3\Pi)-He$  **14**, 143 (1989)  
 Jones, R.O. → Seifert, G.



- Jongh, L.J. de, Aguiar, J.A.O. de, Brom, H.B., Longoni, G., Ruitenbeek, J.M. van, Schmid, G., Smit, H.H.A., Staveren, M.P.J. van, Thiel, R.C.: Physical properties of high-nuclearity metal cluster compounds **12**, 445 (1989)
- Jongh, L.J. de → Aguiar, J.A.O. de  
Jongh, L.J. de → Brom, H.B.  
Jongh, L.J. de → Ruitenbeek, J.M. van  
Jongh, L.J. de → Smit, H.H.A.  
Jongh, L.J. de → Staveren, M.P.J. van  
Jönsson, P. → Carlsson, J.  
Jönsson, P. → Jiang, Z.  
Joos, E.: Motion of a laser-cooled three-level ion in a harmonic trap **14**, 301 (1989)  
Joos, E., Lindner, A.: Langevin equation for the parametric oscillator: a model for ion confinement in a radio frequency trap **11**, 295 (1989)  
Jortner, J., Even, U., Ben-Horin, N., Scharf, D., Barnett, R.N., Landmann, U.: Dynamic and quantum size effects in molecular clusters **12**, 167 (1989)  
Jortner, J. → Heidenreich, A.  
Joshi, P., Tarento, R.J., Van de Walle, J.: Size effect in  $^3\text{He}$ , aggregates. A Gutzwiller approach **20**, 273 (1991)  
Joyes, P. → Van de Walle, J.  
Joyes, P. → Van de Walle, J.  
Jug, K. → Kupka, H.  
Jung, K. → Ziegler, G.  
Jung, Th. → Schleicher, B.  
Jurgens, M.J.G.M. → Ruitenbeek, J.M. van
- K  
Kabachnik, N.M.: Charge asymmetry effects in inner-shell alignment induced by ion-atom collisions **16**, 251 (1990)  
Kabachnik, N.M., Lee, O.V.: Effect of intermediate coupling in angular distribution of Auger electrons **17**, 169 (1990)  
Kaiser, B., Rademann, K.: Partial photoionization cross sections of large mercury clusters and liquid mercury in the vacuum ultraviolet photon energy region **19**, 227 (1991)  
Kaiser, B., Sattler, K., Müller, U., Venkateswaran, N., Xhie, J., Raina, G.: Scanning tunneling microscopy of sputtered aluminum particles **19**, 323 (1991)  
Kaiser, B. → Rademann, K.  
Kaiser, D., Liu, Y., Seck, S., Kriescher, Y., Oppen, G. v.: Precision measurement of the  $1s\ 4f$  fine structure of Hel **18**, 45 (1991)  
Kaiser, E., Vries, J. de, Steger, H., Menzel, K., Kamke, W., Hertel, I.V.: Fragmentation dynamics of ammonia cluster ions after single photon ionisation **20**, 193 (1991)  
Kaiser, E. → Kamke, W.  
Kaiser, E. → Krauss, J.  
Kaiser, R., Vansteenkiste, N., Aspect, A., Arimondo, E., Cohen-Tannoudji, C.: Mechanical Hanle effect **18**, 17 (1991)  
Kaldor, A. → Cox, D.M.  
Kaldor, A. → Gantefor, G.F.  
Källne, E. → Delalić, Z.  
Kambara, T. → Wintermeyer, G.  
Kamimura, H. → Sugino, O.  
Kamiński, J.Z.: Resonant scattering in the presence of strong laser fields **16**, 153 (1990)  
Kamke, B., Kamke, W., Herrmann, R., Hertel, I.V.: Exciton absorption and intramolecular Penning ionisation in small molecular clusters I:  $(\text{N}_2\text{O})_n$  and  $\text{C}_6\text{H}_5\text{CN} \cdot (\text{N}_2\text{O})_n$  **11**, 153 (1989)  
Kamke, B. → Kamke, W.  
Kamke, B. → Krauss, J.  
Kamke, W., Vries, J. de, Krauss, J., Kaiser, E., Kamke, B., Hertel, I.V.: Photoionisation studies of homogeneous argon and krypton clusters using TPEICO **14**, 339 (1989)  
Kamke, W. → Kaiser, E.  
Kamke, W. → Kamke, B.  
Kamke, W. → Krauss, J.  
Kandler, O., Athanassenas, K., Echt, O., Kreisle, D., Leisner, T., Recknagel, E.: Electronic shell structure in multiply charged silver clusters **19**, 151 (1991)  
Kandler, O. → Leisner, T.  
Kandler, O. → Miehl, W.  
Kappes, M.M. → Pollack, St.  
Kappes, M.M. → Wang, C.R.C.  
Karatajev, E.M. → Insepov, Z.A.  
Karpov, S.V. → Butenko, A.V.  
Karrais, M. → Haberland, H.  
Kastberg, A. → Villemoes, P.  
Kasuya, A., Nishina, Y.: Ejection, excitation and decomposition of large clusters from the surface of group II, III and IV elements by excimer laser excitation **20**, 137 (1991)  
Kasuya, A., Nishina, Y.: Nanosecond emission spectra in  $\mu\text{m}$  space of Si particles sputtered by laser irradiation **12**, 493 (1989)  
Kasuya, A. → Nishitani, R.  
Katakuse, I., Ito, H., Ichihara, T.: Fragmentation of doubly charged noble metal clusters **20**, 101 (1991)  
Katakuse, I. → Saito, Y.  
Katern, A. → Kowalczyk, P.  
Kawai, R. → Garzón, I.L.  
Kawamura, K. → Tomiya, S.  
Kay, E. → Laurent, C.  
Kaya, K., Fuke, K., Nonose, S., Kikuchi, N.: Reaction of  $\text{Al}_n$  clusters with oxygen and ammonia **12**, 571 (1989)  
Kaya, K. → Nakajima, A.  
Kaya, K. → Nonose, S.  
Keim, M., Haub, G., Otten, E.W., Scherf, M., Wendt, K.: Hyperfine structure studies in the  $6s\ 6p\ ^3P_2$ -level of barium **18**, 117 (1991)  
Kella, D. → Vager, Z.  
Keller, H.-M. → Littler, I.C.M.  
Keller, H.P. → Guthöhrlein, G.H.  
Kemmler, J., Heil, O., Koschar, P., Biedermann, C., Rothard, H., Kroneberger, K., Meckbach, W., Groeneveld, K.O.: Equilibrium convoy electron production and charge exchange **13**, 45 (1989)  
Kempter, V. → Menner, B.  
Kempter, V. → Schall, H.  
Kern, J. → Rymuza, P.  
Kesper, J. → Buck, U.  
Kessler, B., Müller, N., Schmiedeskamp, B., Vogt, B., Heinzmann, U.: Spin-resolved off-normal photoemission from xenon adsorbates in comparison with free-atom photoionization **17**, 11 (1990)  
Kessler, B. → Cox, D.M.  
Ketterle, W., Figger, H., Walther, H.: Spectroscopy of triatomic hydrogen. II. Bands near 4500 and 7100 Å **13**, 139 (1989)  
Ketterle, W. → Figger, H.  
Khan, I.-A. → Rafi, M.  
Khan, M.A. → Lange, V.  
Khanna, S.N., Reuse, F., Buttet, J.: Electronic structure and stability of charged beryllium clusters **12**, 357 (1989)  
Khanna, S.N. → Blaisten-Barojas, E.  
Khanna, S.N. → Liu, F.  
Khanna, S.N. → Rao, B.K.  
Khadi, S. → Rayane, D.  
Khrilovich, I.B., Pospelov, M.E.: Anapole moment of a chiral molecule **17**, 81 (1990)  
Kikuchi, N. → Kaya, K.  
Kimura, K.: Shape effect and quantum size effect on small metal particles **11**, 327 (1989)  
Kimura, K. → Bandow, S.  
Kimura, K. → Hasegawa, H.  
King, R.B.: Topological models of the chemical bonding in transition metal-silicon clusters **18**, 189 (1991)  
Kishi, T. → Nakajima, A.  
Kitching, J. → Drescher, A.  
Kittaka, C. → Achiba, Y.  
Kittaka, C. → Shiromaru, H.  
Klar, H.: Asymptotic separability of three-body continuum wave functions for Coulomb systems **16**, 231 (1990)  
Klar, H.: Periodic orbits in atomic hydrogen exposed to circularly polarised laser light **11**, 45 (1989)  
Klar, H. → Berakdar, J.  
Klar, H. → Brauner, M.  
Kleiner, K. → Wolf, K.  
Kleinpoppen, H. → Hippler, R.  
Klemz, G. → Kronfeldt, H.-D.  
Klingshirn, C. → Uhrig, A.  
Klink, J.J. van der: Electronic properties of small platinum particles as seen by NMR **12**, 327 (1989)  
Klots, C.E.: Systematics of evaporation **20**, 105 (1991)  
Klots, T.D. → Winter, B.J.  
Kluge, H.-J. → Lindinger, M.  
Kluge, H.J. → Neu, W.  
Knab, H. → Hubrich, M.  
Knappe, P. → Rösch, N.  
Knight, W.D.: Metallic free clusters **12**, 315 (1989)  
Knight, W.D. → Selby, K.  
Knochenmuss, R. → Leutwyler, S.  
Knöll, K.H. → Hubrich, M.  
Knorr, K.H. → Schall, H.  
Kobayashi, S., Wago, K., Komori, F.: NMR in aluminum small particles in high magnetic field **12**, 399 (1989)  
Kobayashi, S. → Goto, T.  
Kofman, R., Cheyssac, P., Garrigos, R., Lerch, Y., Deutscher, G.: Melting of non-spherical ultrafine particles **20**, 267 (1991)  
Kofman, R. → Garrigos, R.  
Köhler, W.E. → Schaefer, J.

- Koike, F. → Sakaue, H.A.  
 Kolar, T. → Haberland, H.  
 Koledin, D. → Grujić, P.  
 Kolenda, J. → Froben, F.W.  
 Kolwas, K., Kolwas, M.: Collision induced mixing of two light beams in Na<sub>2</sub> molecules **14**, 29 (1989)  
 Kolwas, M. → Kolwas, K.  
 Komori, F. → Goto, T.  
 Komori, F. → Kobayashi, S.  
 Kompa, K.L. → Vivie-Riedle, R. de  
 Kondow, T., Nagata, T., Kuchitsu, K.: A mechanism of electron attachment to small clusters **12**, 291 (1989)  
 Kondow, T. → Nagata, T.  
 Kondow, T. → Ozaki, Y.  
 Konjević, N. → Djurović, S.  
 Köppel, H. → Meiswinkel, R.  
 Korsch, H.J., Meyer, H.D., Shukla, C.P.: Rotational excitation in electron-molecule scattering at intermediate collision energy. A two-centre scattering model **15**, 227 (1990)  
 Korsch, H.J. → Ernesti, A.  
 Koschar, P. → Kemmler, J.  
 Koslowski, H.R. → Lebius, H.  
 Kosmidis, C. → Skordoulis, C.  
 Koulen, K.-J. → Charalambidis, D.  
 Koutecký, J. → Bonačić-Koutecký, V.  
 Koutecký, J. → Fantucci, P.  
 Kowalczyk, P., Katern, A., Engelke, F.: Observation and partial characterization of the 2<sup>3</sup>Σ<sub>g</sub><sup>+</sup> state in K<sub>2</sub> **17**, 47 (1990)  
 Kowalczyk, P., Milošević, S., Pichler, G.: Collisional population of the 2<sup>3</sup>Π<sub>g</sub> state in K<sub>2</sub> **11**, 213 (1989)  
 Kowalczyk, P., Schühle, U., Engelke, F.: Rydberg states of the K<sub>2</sub> molecule studied by laser spectroscopy in a supersonic beam **13**, 231 (1989)  
 Kowalski, J. → Abshafen, M.  
 Kraft, T., Ruf, M.-W., Hotop, H.: Effective absolute rate constant for the formation of negatively-charged CO<sub>2</sub> cluster ions by electron transfer from state-selected Rydberg atoms **18**, 403 (1991)  
 Kraft, T., Ruf, M.-W., Hotop, H.: Electron transfer from state-selected Rydberg atoms to (N<sub>2</sub>O)<sub>n</sub> and (CF<sub>3</sub>Cl)<sub>n</sub> clusters **20**, 13 (1991)  
 Kraft, T., Ruf, M.-W., Hotop, H.: Formation of negatively-charged cluster ions in thermal energy collisions with state-selected Rydberg atoms **14**, 179 (1989)  
 Kraft, T., Ruf, M.-W., Hotop, H.: Strong dependence of negative cluster ion spectra on principal quantum number *n* in collisions of state-selected Ar<sup>++</sup> (*nd*) Rydberg atoms with N<sub>2</sub>O clusters **17**, 37 (1990)  
 Kragh, F. → Bentzon, M.D.  
 Kramer, H. → Dresch, T.  
 Krätschmer, W.: How we came to produce C<sub>60</sub>-fullerite **19**, 405 (1991)  
 Krause, H. → Ernstberger, B.  
 Krauss, J., Vries, J. de, Steger, H., Kaiser, E., Kamke, B., Kamke, W.: TPEPICO studies near ionization threshold of argon and krypton clusters **20**, 29 (1991)  
 Krauss, J. → Kamke, W.  
 Kreibig, U., Fauth, K., Quinten, M., Schönauer, D.: Many-cluster-systems: models of inhomogeneous matter **12**, 505 (1989)  
 Kreibig, U. → Dusemund, B.  
 Kreibig, U. → Fauth, K.  
 Kreibig, U. → Goll, G.  
 Kreibig, U. → Quinten, M.  
 Kreibig, U. → Schönauer, D.  
 Kreisle, D. → Kandler, O.  
 Kreisle, D. → Leisner, T.  
 Kreisle, D. → Rivoal, J.C.  
 Kreisle, D. → Weidele, H.  
 Kreissl, J., Hohne, M., Gehlhoff, W.: Identification of diluted small defect clusters in silicon by electron paramagnetic resonance **20**, 373 (1991)  
 Kresin, V.: Surface and volume collective modes in small clusters and their interaction with single-particle levels **19**, 105 (1991)  
 Kresin, V. → Selby, K.  
 Kriescher, Y. → Kaiser, D.  
 Krohne, R. → Buck, U.  
 Kroneberger, K. → Kemmler, J.  
 Kronfeldt, H.-D., Klemz, G.: *J*-dependence of the isotope shift in Gd I 4f<sup>7</sup> 5d<sup>2</sup> 6s (*a*<sup>11</sup>F) **18**, 131 (1991)  
 Kronfeldt, H.-D., Sinn, G.: Crossed-second-order effects of the isotope shift in the Er II groundconfiguration 4f<sup>12</sup> 6s **14**, 205 (1989)  
 Kronfeldt, H.-D. → Seifert, P.  
 Kršljanin, V., Dimitrijević, M.S.: Modified semiempirical Stark shifts of ArII lines **14**, 273 (1989)  
 Kruse, N., Gillet, E.: Size effects in the CO oxidation over supported Pd particles **12**, 575 (1989)  
 Kryszewski, S. → Fiutak, J.  
 Kubota, S. → Nishitani, R.  
 Kucal, H., Hennecart, D., Masnou-Secuews, F.: Model potential calculations for the excited states of the Ar\*+He, Ar\*+Ne molecular systems. Interpretation of thermal energy collisions involving Ar\*(3p<sup>5</sup> 4p) and Ne\*(2p<sup>5</sup> 3p) **13**, 241 (1989)  
 Kučar, J., Meyer, H.-D.: The time-dependent rotated Hartree approach: A reformulation for the harmonic Lie algebra **18**, 325 (1991)  
 Kuchitsu, K. → Kondow, T.  
 Kuge, H.-H. → Wolf, K.  
 Kühling, H. → Blanc, J.  
 Kulkarni, A. → Gadre, S.R.  
 Kumar, S.V.K. → Ziegler, G.  
 Kumar, V., Car, R.: A density functional molecular dynamics study of the bonding and stability of Mg<sub>n</sub> clusters (*n*=2–13) **19**, 177 (1991)  
 Kunath, W. → Gao, P.Y.  
 Kunze, H. → Dietrich, K.G.  
 Kunze, H. → Elfers, M.  
 Kupchenko, V.A. → Amusia, M.Ya.  
 Kupka, H., Jug, K.: Geometries and stabilities of Si<sub>n</sub> clusters **13**, 301 (1989)  
 Kupriyanov, D.V., Sevastianov, B.N., Vasyutinskii, O.S.: Polarization of thallium atoms produced in molecular photodissociation: experiment and theory **15**, 105 (1990)  
 Kutzelnigg, W.: Perturbation theory of relativistic corrections. 1. The non-relativistic limit of the Dirac equation and a direct perturbation expansion **11**, 15 (1989)  
 Kutzelnigg, W.: Perturbation theory of relativistic corrections. 2. Analysis and classification of known and other possible methods **15**, 27 (1990)  
 Kwela, J.: E2-E1 interference in radiative decay of atoms in an electric field **13**, 101 (1989)
- ## L
- Labastie, P. → Blanc, J.  
 Labat, J. → Djenize, S.  
 Lablanquie, P., Ito, K., Morin, P., Nenner, I., Eland, J.H.D.: One photon double ionization of helium: threshold behaviour **16**, 77 (1990)  
 Laha, U. → Bhattacharya, J.  
 Lahaye, C.T.W., Hogervorst, W., Veldt, T. van der: Avoided level crossings in bound Rydberg states of barium in an electric field **13**, 107 (1989)  
 Lahmam-Bennani, A. → Avaldi, L.  
 LaiHing, K., Cheng, P.Y., Duncan, M.A.: Laser photoionization and spectroscopy of gas phase silver clusters **13**, 161 (1989)  
 Lalöf, F. → Vermeulen, G.  
 Lambropoulos, P. → Bachau, H.  
 Lambropoulos, P. → Marketos, P.  
 Lammers, U., Borstel, G., Mañanes, A., Alonso, J.A.: Electronic and atomic structure of Cs<sub>N</sub> and Cs<sub>N</sub>O clusters **17**, 203 (1990)  
 Landmann, U. → Jortner, J.  
 Lange, T., Göhlich, H., Bergmann, T., Martin, T.P.: Calculated electronic properties of medium sized sodium clusters: the inhomogeneous jellium model **19**, 113 (1991)  
 Lange, T. → Göhlich, H.  
 Lange, T. → Martin, T.P.  
 Lange, V., Khan, M.A., Eichmann, U., Sandner, W.: Rydberg states of the strontium ion **18**, 319 (1991)  
 Langhoff, H. → Conrad, N.  
 Langhoff, H. → Fiedler, J.  
 Langhoff, H. → Mantel, M.  
 Langosch, H. → Haberland, H.  
 Larsson, J. → Jiang, Z.  
 Larsson, S. → Braga, M.  
 Lasnitschka, G. → Hermann, G.  
 Lauenstein, C. → Buck, U.  
 Lauenstein, Ch. → Ahlrichs, R.  
 Lauenstein, Ch. → Buck, U.  
 Lauer, H. → Schönauer, D.  
 Laughlin, C.: Wavelengths and transition probabilities in the quartet spectrum of NV **16**, 9 (1990)  
 Laurent, C., Kay, E.: Electrical and magnetic properties of thin films containing metal clusters **12**, 465 (1989)  
 Le Calvé, J. → Schmidt, M.  
 Le Sech, C. → Dulieu, O.  
 Lebius, H., Koslowski, H.R., Huber, B.A.: State-selective single electron capture by multiply charged ions. Reaction window and multichannel Landau Zener calculations **11**, 53 (1989)  
 Lee, G.H., Arnold, S.T., Eaton, J.G., Sarkas, H.W., Bowen, K.H., Ludewigt, C., Haber-

- land, H.: Negative ion photoelectron spectroscopy of solvated electron cluster anions,  $(\text{H}_2\text{O})_n^-$  and  $(\text{NH}_3)_n^-$  **20**, 9 (1991)
- Lee, J.K.P. → Drescher, A.
- Lee, M.Y. → Maruyama, S.
- Lee, O.V. → Kabachnik, N.M.
- Leeuwen, D.A. van → Ruitenbeek, J.M. van
- Légaré, P., Finck, F., Roche, R., Maire, G.: Palladium particles growth on various aluminas **12**, 19 (1989)
- Leisner, C. → Conrad, N.
- Leisner, T., Athanassenas, K., Echt, O., Kandler, O., Kreisle, D., Recknagel, E.: Hot tungsten clusters: competition between atom ejection and thermionic emission **20**, 127 (1991)
- Leisner, T., Echt, O., Kandler, O., Xue-Jian, Y., Recknagel, E.: Quantized losses from charged nitrogen clusters **12**, 283 (1989)
- Leisner, T. → Kandler, O.
- Leisner, T. → Miehe, W.
- Leisner, T. → Weidele, H.
- Leleyter, M.: Compared electronic structure of negative ions  $M_p C_n^-$ : I. Normal elements in Hückel theory **12**, 381 (1989)
- Leleyter, M.: Compared electronic structures of negative ions  $M_p C_n^-$ : II. Transition metals in Hückel theory **20**, 85 (1991)
- Leleyter, M.: Electronic structures and stabilities of  $\text{GeC}_n$  and  $\text{Ge}_2\text{C}_n$  in Hückel theory **20**, 81 (1991)
- Lereah, Y. → Kofman, R.
- Lerner, P.B., Sokolov, I.M.: Surface of liquid helium as a trap for Rydberg atom. Mechanisms of relaxation **14**, 173 (1989)
- Leuchter, R.E. → Castleman, A.W. Jr.
- Leute, A. → Feld, H.
- Leutwyler, S., Furlan, A., Knochenmuss, R., Schütz, M., Troxler, T., Wülfert, S.: Isomer- and "phase"-selective spectroscopy of van der Waals solvent clusters **20**, 209 (1991)
- Leutwyler, S. → Schütz, M.
- Levin, M. → Markovich, G.
- Leygnier, J. → Bréchignac, C.
- Lezius, M. → Märk, T.D.
- Lhagva, O. → Grum-Grzhimailo, A.N.
- Li, D.H., Jellinek, J.: Rotating clusters: centrifugal distortion, isomerization, fragmentation **12**, 177 (1989)
- Li, G.Z.: Thomas-Fermi theory for the ion cloud in the trap **14**, 1 (1989)
- Liedenbaum, C., Heijmen, B., Stolte, S., Reuss, J.: IR predissociation of halogenated methane van der Waals complexes **11**, 175 (1989)
- Lievens, P. → Silverans, R.E.
- Lignières, J., d'Humières, B., Rivoal, J.C.: Linear and circular dichroism detection of magnetic torque on matrix isolated small manganese clusters **19**, 207 (1991)
- Lignières, J. → Rivoal, J.C.
- Limaye, A.C. → Gadre, S.R.
- Limberger, H.G., Martin, T.P.: Ionization energies of cesium and cesium oxide clusters **12**, 439 (1989)
- Linder, F. → Andrić, L.
- Linder, F. → Hertzberg, Ch.
- Lindgren, B. → Doverstål, M.
- Lindinger, M., Becker, St., Bollen, G., Dasgupta, K., Jertz, R., Kluge, H.-J., Schweikhard, L., Vogel, M., Lützenkischen, K.: Cluster isobars for high-precision mass spectrometry **20**, 441 (1991)
- Lindner, A. → Joos, E.
- Lindsay, D.M., Meyer, F., Harbich, W.: Neutralization and matrix deposition experiments on mass-selected silver atoms and clusters **12**, 15 (1989)
- Lindsay, D.M. → Harbich, W.
- Lingbing, C., Figger, H., Quint, W.: High resolution photofragment spectroscopy of the gas phase methyl iodide ion **13**, 61 (1989)
- Linnartz, H. → Buck, U.
- Lipparini, E., Stringari, S.: Collective excitations in deformed alkali metal clusters **18**, 193 (1991)
- Lipparini, E., Vitturi, A.: Fission of ionized alkali metal clusters **17**, 57 (1990)
- Littler, I.C.M., Keller, H.-M., Gaubatz, U., Bergmann, K.: Velocity control and cooling of an atomic beam using a modeless laser **18**, 307 (1991)
- Liu, F., Press, M.R., Khanna, S.N., Jena, P.: Magnetism and local order **12**, 361 (1989)
- Liu, F.S. → Chekmarev, S.F.
- Liu, S. → Wang, C.R.C.
- Liu, Y. → Kaiser, D.
- Liu, Y.Y. → Begemann, W.
- Livingston, A.E. → Möller, G.
- Llebaria, A. → Dussert, C.
- Lodwig, V. → Möller, G.
- Löhneysen, H. v. → Goll, G.
- Lombard, R. → Božić, M.
- Long, X.P. → Garzón, I.L.
- Longoni, G. → Jongh, L.J. de
- López, J.M. → Baladrón, C.
- López, M.J., Iñiguez, M.P., Alonso, J.A.: Stability of isomeric  $\text{Na}_n$  clusters **19**, 141 (1991)
- López, M.J., Mañanes, A., Alonso, J.A., Iñiguez, M.P.: Enrichment and segregation in alkali heteroclusters **12**, 237 (1989)
- Lopez, M.J. → Iñiguez, M.P.
- López, M.J. → Mañanes, A.
- Louis, C. → Cheng, Z.X.
- Löwenich, K. → Bazzacco, D.
- Lozzi, L., Passacantando, M., Picozzi, P., Santucci, S., De Crescenzi, M.: Electronic structure of Cr clusters on graphite **20**, 387 (1991)
- Lozzi, L. → De Crescenzi, M.
- Lüdde, H.J., Henne, A., Dreizler, R.M.: Optical potentials in time dependent quantum systems: evaluation of  $Q$  space probabilities **15**, 141 (1990)
- Lüder, Ch. → Siekmann, H.R.
- Ludewigt, C. → Haberland, H.
- Ludewigt, C. → Lee, G.H.
- Ludwig, N. → Naß, P.
- Lundberg, H. → Bergström, H.
- Lutz, H.O. → Begemann, W.
- Lutz, H.O. → Ganteför, G.
- Lutz, H.O. → Hippler, R.
- Lutz, H.O. → Madeheim, H.
- Lutz, H.O. → Siekmann, H.R.
- Lützenkischen, K. → Lindinger, M.
- Lyras, A.: Rydberg series of autoionizing states in strong laser fields **15**, 3 (1990)
- Madeheim, H., Hippler, R., Lutz, H.O.: Alignment of  $\text{H}(2p)$  in  $\text{H}-\text{He}$ ,  $\text{Ne}$ ,  $\text{Ar}$  collisions **15**, 327 (1990)
- Madeheim, H. → Hippler, R.
- Maeda, H. → Takami, M.
- Mahapatra, P.C., Rao, B.K.: Many-body theory for the anti shielding factor of lithium atom **16**, 17 (1990)
- Mahnke, R., Urbschat, H., Budde, A.: Nucleation and condensation to a single equilibrium cluster regime in a Monte Carlo experiment **20**, 399 (1991)
- Maire, G. → Légaré, P.
- Maki, T. → Saito, Y.
- Malkin, E. → Vager, Z.
- Mall, M. → Haberland, H.
- Malm, J.-O. → Bovin, J.-O.
- Malrieu, J.P. → Spiegelmann, F.
- Mañanes, A., Iñiguez, M.P., Alonso, J.A., López, M.J.: Evaporation rates of hot sodium clusters **20**, 119 (1991)
- Mañanes, A., Membrado, M., Sañudo, J., Pacheco, A.F., Balbás, L. C.: Semiclassical variational study of size effects in neutral and charged jellium droplets **19**, 55 (1991)
- Mañanes, A. → Lammers, U.
- Mañanes, A. → López, M.J.
- Mañanes, A. → Robles, J.
- Mandich, M.L., Reents, W.D. Jr.: Sequential reactions of silicon clusters with  $\text{SiD}_4$ : constrained heterogeneous nucleation of deuterated silicon particles **12**, 555 (1989)
- Mantel, M., Langhoff, H.: Potential curves of the rare gas alkali ions **15**, 297 (1990)
- Manz, J. → Heller, E.J.
- Maréchal, J.L. → Bodeur, S.
- Margreiter, D. → Walder, G.
- Marić, Z. → Božić, M.
- Marignier, J.L. → Mostafavi, M.
- Märk, T.D.: Metastable decay of rare gas cluster ions: mechanism and kinetics **12**, 263 (1989)
- Märk, T.D., Scheier, P.: Observation and investigation of metastable decay series of  $(\text{N}_2)_n^+$  cluster ions **12**, 285 (1989)
- Märk, T.D., Scheier, P., Lezius, M., Walder, G., Stamatovic, A.: Multiply charged cluster ions of Ar, Kr, Xe,  $\text{N}_2$ ,  $\text{O}_2$ ,  $\text{CO}_2$ ,  $\text{SO}_2$  and  $\text{NH}_3$ : production mechanism, appearance size and appearance energy **12**, 279 (1989)
- Märk, T.D., Stamatovic, A., Scheier, P.: Interactions of electrons with  $\text{SF}_6$ : ionization and attachment **12**, 303 (1989)
- Märk, T.D. → Foltin, M.
- Märk, T.D. → Stamatovic, A.
- Märk, T.D. → Walder, G.
- Marketos, P.: Atomic basis set calculations with ab-initio relativistic pseudopotentials **13**, 83 (1989)
- Marketos, P., Lambropoulos, P.: A relativistic C.I. study on the  $J=1/2$  even spectrum of  $\text{Sr II}$  **15**, 185 (1990)
- Markovich, G., Giniger, R., Levin, M., Cheshnovsky, O.: Photoelectron spectroscopy of negative ions solvated in clusters **20**, 69 (1991)
- Marsch, C., Winter, H.: Complete density matrix of  $\text{HeI } 3p$  excited in fast grazing

- ion-surface collisions via "Hanle-effect" **18**, 25 (1991)
- Martens, L.R.M. → Grobet, P.J.
- Mårtensson-Pendrill, A.M. → Hartley, A.C.
- Martin, T.P., Bergmann, T., Göhlich, H., Lange, T.: Electronic shells and shells of atoms in metallic clusters **19**, 25 (1991)
- Martin, T.P. → Bergmann, T.
- Martin, T.P. → Fallgren, H.
- Martin, T.P. → Göhlich, H.
- Martin, T.P. → Lange, T.
- Martin, T.P. → Limberger, H.G.
- Martin, T.P. → Wasserman, B.
- Martinez, A. → Gayet, R.
- Martins, J.L.: New methods for the calculation of the electronic structure of clusters: application for Na<sub>13</sub> to Na<sub>147</sub> **12**, 347 (1989)
- Martins, J.L. → Moullet, I.
- Martinson, I. → Träbert, E.
- Martrenchard, S. → Dedonder-Lardeux, C.
- Maruyama, S.: The mode of deformation under varied tensile directions in laminar, colloidal gold **12**, 135 (1989)
- Maruyama, S., Lee, M.Y., Hauser, R.E., Chai, Y., Smalley, R.E.: Thermionic emission from giant fullerenes **19**, 409 (1991)
- Marxer, H., Briggs, J.S.: The capture of inner-shell electrons in the strong-potential born (SPB) approximation **13**, 75 (1989)
- Mašek, K. → Tomková, E.
- Masnou-Secuews, F. → Henriot, A.
- Masnou-Secuews, F. → Kucal, H.
- Masson, A. → Bréchnignac, C.
- Masson, A. → De Gouveia, V.
- Masui, J. → Selby, K.
- Matera, F. → Ciancetto, M.C.
- Matolin, V. → Gillet, E.
- Matolin, V. → Tomková, E.
- Matsuo, S., Satou, S., Suzuki, M., Sano, M., Wakano, H.: Magnetic properties of small nickel oxide clusters enclosed in Y-zeolite **18**, 281 (1991)
- Matsuo, Y. → Takami, M.
- Matzdorf, R., Fricke, B., Soff, G.: Elastic nuclear scattering at intermediate and relativistic energies **17**, 233 (1990)
- Maynau, D. → Spiegelmann, F.
- Mazzoni, M.: The  $4p^3(2P)ns, nd$  configurations of Se I **14**, 211 (1989)
- McCarroll, R. → Dubernet, M.L.
- McElvany, S.W. → Parent, D.C.
- McHugh, K.M., Sarkas, H.W., Eaton, J.G., Westgate, C.R., Bowen, K.H.: The smoke ion source: a device for the generation of cluster ions via inert gas condensation **12**, 3 (1989)
- McKellar, A.R.W. → Schaefer, J.
- Meckbach, W. → Kemmler, J.
- Mehler, G., Soff, G., Rumrich, K., Greiner, W.: K-shell ionization in relativistic ion-atom collisions **13**, 193 (1989)
- Mehlhorn, W. → Albiez, A.
- Meier, U., Peyerimhoff, S.D., Grein, F.: Ab initio MRD-CI study of neutral and charged Ga<sub>2</sub>, Ga<sub>3</sub> and Ga<sub>4</sub> clusters and comparison with corresponding boron and aluminum clusters **17**, 209 (1990)
- Meierkord, W., Blümke, T., Brüssermann, M., Hofste, J., Menzebach, H.-U., Penning, J.F., Stachura, Z., Vollmer, W., Wigger, J., Cleff, B.: P<sub>3/2</sub>-alignment following heavy ion impact **18**, 75 (1991)
- Meijer, H.A.J.: Polarization and collision velocity dependence of associative ionization in cold Na(3p)–Na(3p) collisions **17**, 257 (1990)
- Meijer, H.A.J. → Schohl, S.
- Meißner, A.-H. → Aynacioglu, A.S.
- Meiswinkel, R., Köppel, H.: A pseudo-Jahn-Teller treatment of the B system of Na<sub>3</sub> **19**, 63 (1991)
- Meiwes-Broer, K.H. → Begemann, W.
- Meiwes-Broer, K.H. → Ganteför, G.
- Meiwes-Broer, K.H. → Siekmann, H.R.
- Mele, A. → Giardini Guidoni, A.
- Melinon, P. → Benamar, A.
- Melinon, P. → Rayane, D.
- Melinon, P. → Santos Aires, F.
- Melinon, P. → Treilleux, M.
- Membrado, M. → Mañanes, A.
- Méndez, L. → Errea, L.F.
- Meng, J. → Rao, B.K.
- Menner, B., Ohlendorf, G., Patorra, F., Kemper, V.: Orientation and alignment of alkali p-states excited in low-energy collisions of alkali ions with noble gas atoms **17**, 237 (1990)
- Ménorval, L.C. de → Goursot, A.
- Menovsky, A.A. → Huang, Y.K.
- Menzebach, H.-U. → Meierkord, W.
- Menzel, C. → Kaiser, E.
- Mergl, E., Nakel, W.: Measurement of the asymmetry in the emission of bremsstrahlung by transversely polarized electrons **17**, 271 (1990)
- Meyberg, M. → Abshafen, M.
- Meyer, F. → Lindsay, D.M.
- Meyer, H.D. → Korsch, H.J.
- Meyer, H.D. → Kučar, J.
- Meyer, H.D. → Ziegler, G.
- Miehle, W., Echt, O., Kandler, O., Leisner, T., Recknagel, E.: Magic numbers of large rare gas clusters **12**, 273 (1989)
- Mihama, K., Tanaka, N.: Nm-sized crystallites embedded in single crystalline films of magnesium oxide **12**, 157 (1989)
- Mihama, K. → Saito, Y.
- Mihama, K. → Yoshizaki, F.
- Mihill, A., Fink, M.: Elastic electron scattering cross sections of oriented and aligned molecules **14**, 77 (1989)
- Miklaszewski, W. → Czub, J.
- Miklaszewski, W. → Fiutak, J.
- Miklazky, E. → Vager, Z.
- Milani, P., Heer, W. de, Châtelain, A.: Electronic properties of aluminum clusters compared with the jellium model **19**, 133 (1991)
- Milani, P. → Ballone, P.
- Milani, P. → Heer, W. de
- Milani, P. → Heer, W.A. de
- Millack, T.: Second order g-Hartree calculations of the dipole-constants of Li and B **11**, 181 (1989)
- Milošević, S. → Kowalczyk, P.
- Minami, K. → Saito, Y.
- Mincheva, S.T. → Vidolova-Angelova, E.P.
- Mingos, D.M.P., Zhenyang, L.: A group theoretical paradigm for describing the skeletal molecular orbitals of cluster compounds. Part 3 **12**, 53 (1989)
- Miniatura, Ch. → Vassilev, G.
- Misaizu, F. → Shinohara, H.
- Mishin, V.I. → Vidolova-Angelova, E.P.
- Missimer, J., Simons, L.M.: The photon-electron directional correlation and the weak neutral current in muonic boron **17**, 275 (1990)
- Mitome, M., Tanishiro, V., Takayanagi, K.: On the structure and stability of small metal particles: high-resolution UHV electron microscope study **12**, 45 (1989)
- Mitov, I., Tabakova, T., Andreeva, D., Tomov, T.: Mössbauer spectroscopic characterization of ultrafine iron oxide and oxyhydroxide prepared by oxidative hydrolysis **19**, 275 (1991)
- Mittelbach, T. → Fritsche, H.G.
- Mizugai, Y. → Takami, M.
- Mohan, M., Baluja, K.L.: Electron-impact excitation of the transition  $1s^2 2s^2 2p^3(2P^0_{3/2} - 2P^0_{1/2})$  of Mg IV **14**, 135 (1989)
- Mohanan, S., Josphura, K.N.: Slow electron collisions with polar molecules in plasma **15**, 67 (1990)
- Mohr, S. → Foltin, M.
- Mokler, P.H. → Möller, G.
- Mokler, P.H. → Wintermeyer, G.
- Möller, G., Träbert, E., Heckmann, P.H., Mokler, P.H., Livingston, A.E.: Quest for experimental M1 and E1-intercombination transition probabilities in few-electron Xe ions **18**, 223 (1991)
- Möller, G., Träbert, E., Lodwig, V., Wagner, C., Heckmann, P.H., Blanke, J.H., Livingston, A.E., Mokler, P.H.: Experimental transition probability for the E1 intercombination transition in Be-like Xe<sup>50+</sup> **11**, 333 (1989)
- Möller, G. → Blanke, J.H.
- Möller, G. → Pinnington, E.H.
- Möller, K. → Froben, F.W.
- Möller, T.: Optical properties and electronic excitations of rare gas clusters **20**, 1 (1991)
- Möller, T. → Stapelfeldt, J.
- Möller, T. → Wörmer, J.
- Momberger, K., Grün, N., Scheid, W.: Coupled channel analysis of electron-positron pair production in relativistic heavy ion collisions **18**, 133 (1991)
- Monot, R. → Hall, B.
- Monot, R. → Hall, B.D.
- Mons, M. → Schmidt, M.
- Montano, P.A., Zhao, J., Ramanathan, M., Shenoy, G.K., Schulze, W.: Structure of Ag, Fe and Ge microclusters **12**, 103 (1989)
- Moonen, J.T. → Staveren, M.P.J. van
- Morgan, T.J. → Bergeron, H.
- Morgner, H. → Schohl, S.
- Morin, P. → Lablanquie, P.
- Moriwaki, T. → Achiba, Y.
- Moriwaki, T. → Shiromaru, H.
- Mossier, R., Sadoc, J.F.: Description of metallic and covalent clusters with icosahedral symmetry: the polytope model **12**, 89 (1989)
- Mostafavi, M., Marignier, J.L., Amblard, J., Belloni, J.: Silver-dependent thermodynamic properties of silver aggregates. Simulation of the photographic development process **12**, 31 (1989)



- Moulet, I., Martins, J.L., Reuse, F., Buttet, J.: Static electric dipole polarizability of small sodium aggregates **12**, 353 (1989)
- Mueller, E. → Fritsche, H.G.
- Mühschlegel, B.: Mesoscopic systems **20**, 289 (1991)
- Mukherjee, S., Pastor, G.M., Bennemann, K.H.: Stability of  $\text{Au}_2^+$ : metastability through an excited state? **20**, 131 (1991)
- Mukherjee, T., Ghosh, A.S.: Low energy  $e^- - \text{Li}_2$  scattering using LFCC method **14**, 167 (1989)
- Mukherjee, T., Sur, S., Ghosh, A.S.: Positron-nitrogen molecule scattering at low energies **11**, 147 (1989)
- Müller, A., Hofmann, G., Tinschert, K., Weißbecker, B., Salzborn, E.: Doubly autoionizing capture resonances in  $e + \text{Mg}^+$  collisions **15**, 145 (1990)
- Müller, A. → Hofmann, G.
- Müller, B. → Augustin, J.
- Müller, D., Gassen, J., Scheuer, F., Sträter, H.D., Brentano, P. von: Autocollimation spectroscopy for fast hydrogenic ions **18**, 249 (1991)
- Müller, E. → Vogelsberger, W.
- Müller, M.W. → Schohl, S.
- Müller, N. → Kessler, B.
- Müller, U., Sattler, K., Xhie, J., Venkateswaran, N., Raina, G.: A scanning tunneling microscope study of single platinum atoms, platinum dimers and trimers on highly-oriented pyrolytic graphite **19**, 319 (1991)
- Müller, U. → Bartscher, H.
- Müller, U. → Kaiser, B.
- Musolino, V. → Oranges, T.
- Musso, M. → Windholz, L.

## N

- Naaman, R. → Vager, Z.
- Nagata, T., Kondow, T.: Photofragmentation of cluster ions: the visible photoabsorption spectrum of  $\text{Ar}_2\text{N}_2^+$  **20**, 153 (1991)
- Nagata, T. → Kondow, T.
- Nakajima, A., Kishi, T., Sone, Y., Nonose, S., Kaya, K.: Reactivity of positively charged cobalt cluster ions with  $\text{CH}_4$ ,  $\text{N}_2$ ,  $\text{H}_2$ ,  $\text{C}_2\text{H}_4$ , and  $\text{C}_2\text{H}_2$  **19**, 385 (1991)
- Nakamura, M.: Shell effects on fragmentations of doubly-charged silver clusters **19**, 149 (1991)
- Nakamura, M., Ishii, Y., Tamura, A., Sugano, S.: Shell effects on symmetric fragmentations of alkali-metal clusters **19**, 145 (1991)
- Nakano, H. → Matsuo, S.
- Nakel, W. → Mergl, E.
- Naß, P., Eller, M., Ludwig, N., Reichert, E., Webersinke, M.: Polarization transfer in the  $n^2$   $P$ -excitation of alkali atoms by longitudinally polarized electrons **11**, 71 (1989)
- Nassal, B. → Riefer, G.
- Navarro, J. → Serra, L.I.
- Nenner, I. → Bodeur, S.
- Nenner, I. → Lablanquie, P.
- Neu, W., Neugart, R., Otten, E.-W., Passler, G., Wendt, K., Fricke, B., Arnold, E.,

- Kluge, H.J., Ulm, G., ISOLDE Collaboration: Quadrupole moments of radium isotopes from the  $7p\ ^2P_{3/2}$  hyperfine structure in Ra II **11**, 105 (1989)
- Neugart, R. → Neu, W.
- Neugart, R. → Silverans, R.E.
- Neuroth, N. → Uhrig, A.
- Neuschäfer, D. → Geisen, H.
- Neusser, H.J. → Ernstberger, B.
- Neusser, H.J. → Weber, Th.
- Nickich, V., Hegemann, T., Bartsch, M., Hanne, G.F.: Left-right asymmetry in superelastic collisions of polarized electrons with unpolarized laser-excited sodium atoms **16**, 261 (1990)
- Nicklass, A. → Flad, J.
- Nielsen, S.E., Andersen, N.: Direct transitions among atomic states of negative reflection symmetry in the scattering plane:  $\text{Li}(2p_0, 3p_0, 3d_{\pm 1})\text{-He}$  collisions **11**, 123 (1989)
- Niemax, K. → Obrebski, A.
- Niemax, K. → Sdorra, W.
- Nihoul, G. → Henry, C.R.
- Niklasson, G.A. → Håkansson, J.
- Niklasson, G.A. → Sotelo, J.A.
- Nishi, N.: Aqueous molecular clusters isolated as liquid fragments by adiabatic expansion of liquid jets **15**, 239 (1990)
- Nishi, N., Shinohara, H.: Intra-cluster ion-molecule reactions and photodissociation of molecular clusters **12**, 269 (1989)
- Nishi, N. → Shinohara, H.
- Nishina, Y. → Kasuya, A.
- Nishina, Y. → Nishitani, R.
- Nishioka, H.: Shells and supershells in metal clusters **19**, 19 (1991)
- Nishitani, R., Kasuya, A., Kubota, S., Nishina, Y.: STM observation of Au fine-particles on graphite **19**, 333 (1991)
- Nitsch, C. → Schulz, C.P.
- Noda, T. → Saito, Y.
- Noll, R. → Dietrich, K.G.
- Noll, R. → Ellers, M.
- Nonose, S., Sone, Y., Kaya, K.: Reactivity and stability of bimetallic clusters **19**, 357 (1991)
- Nonose, S. → Kaya, K.
- Nonose, S. → Nakajima, A.
- Nordbeck, R.-P. → Bartschat, K.
- Nordling, C. → Villemoes, P.
- Norman, G.E. → Insepov, Z.A.
- Northby, J.A., Xie, J., Freeman, D.L., Doll, J.D.: Binding energy of large icosahedral and cuboctahedral Lennard-Jones clusters **12**, 69 (1989)
- Novaro, O. → Ramirez-Solis, A.
- Novero, C., Godone, A.: Wavelength and isotopic shift measurements of the  $^3\text{S}(3s\ 4s) - ^3\text{P}(3s\ 3p)$  MgI transitions **17**, 33 (1990)
- Oberhofer, N. → Bertsch, G.F.
- Obrebski, A., Hergenröder, R., Niemax, K.: Narrowing of spectral lines by energy pooling collisions in laser enhanced ionization spectroscopy **14**, 289 (1989)

## O

- Oechsner, H. → Franzreb, K.
- Ohashi, K. → Shinohara, H.
- Ohlendorf, G. → Menner, B.
- Ohnishi, S. → Saito, S.
- Ohshita, A. → Saito, Y.
- Okazaki, T. → Saito, Y.
- Oppen, G. v. → Aynacioglu, A.S.
- Oppen, G. v. → Kaiser, D.
- Oranges, T., Musolino, V., Toscano, M., Russo, N.: Spectroscopic and electronic structure of the  $\text{CuIn AgIn CuGa}$  and  $\text{AgGa}$  diatomics **17**, 133 (1990)
- Ortiz, G., Ballone, P.: Bonding properties of IIA and IIB dimers in density functional theory with gradient corrections to the local density approximation **19**, 169 (1991)
- Osawa, E. → Slanina, Z.
- Otten, E.W. → Keim, M.
- Otten, E.-W. → Neu, W.
- Ottinger, Ch. → Geisen, H.
- Ozaki, Y., Ichihashi, M., Kondow, T.: Frequencies of breathing vibrations of nearly spherical Ar clusters calculated by molecular dynamics **20**, 161 (1991)
- Pacchioni, G., Bagus, P.S., Philpott, M.R.: Cluster-model study of the interaction of halogen atoms with Ag clusters **12**, 543 (1989)
- Pacchioni, G., Fantucci, P.: Bonding in nickel cluster carbonyls **12**, 395 (1989)
- Pacheco, A.F. → Mañanes, A.
- Palm, H. → Goerke, A.
- Palmari, J. → Dussert, C.
- Parent, D.C., McElvany, S.W.: Reactions of small carbon cluster ions with HCN: a structural probe **12**, 567 (1989)
- Parks, E.K. → Winter, B.J.
- Pasche, S., Borel, J.P.: Size dependence of the paramagnetic susceptibility of Mg and Zn clusters **12**, 401 (1989)
- Passacantando, M. → Lozzi, L.
- Passler, G. → Neu, W.
- Pastor, G.M.: Electronic properties of divalent-metal clusters **19**, 165 (1991)
- Pastor, G.M., Stampfli, P., Benneman, K.H.: Calculation of the size dependence of the ionization energy and autoionization energy of Hg clusters **12**, 365 (1989)
- Pastor, G.M. → Garcia, M.E.
- Pastor, G.M. → Mukherjee, S.
- Pastor, G.M. → Reindl, S.L.
- Pastor, G.M. → Vega, A.
- Patorra, F. → Menner, B.
- Pavan, P. → Bazzacco, D.
- Pedersen, J. → Bjørnholm, S.
- Pellow, R., Vala, M.: Use of isotopomers for cluster size and geometry determination **15**, 171 (1990)
- Penders-Vaňková, E. → Vojtik, J.
- Peng, W.X. → Bergström, H.
- Penisson, J.M., Renou, A.: Structure of an icosahedral palladium particle **12**, 113 (1989)
- Penisson, J.M. → Henry, C.R.
- Penisson, J.M. → Renou, A.

- Pennings, J.F. → Meierkord, W.  
 Penzar, Z., Ekardt, W.: Electronic shell structure and metal clusters: the self-consistent spheroidal jellium model. Recent results and further developments **17**, 69 (1990)  
 Penzar, Z., Ekardt, W.: The self-consistent spheroidal jellium model of open-shell monovalent metal clusters **19**, 109 (1991)  
 Perales, F. → Vassilev, G.  
 Perera, L. → Amar, F.G.  
 Perić, M. → Thümmel, H.  
 Perny, B. → Rymuza, P.  
 Persson, A. → Bergström, H.  
 Persson, J.: Parameterization of the hyperfine structure of metastable states in  $^{103}\text{Rh}$  **14**, 139 (1989)  
 Peter, Th. → Chichkov, B.N.  
 Petkau, K. → Fiedler, J.  
 Peyerimhoff, S.D. → Böhmer, H.-U.  
 Peyerimhoff, S.D. → Carnell, M.  
 Peyerimhoff, S.D. → Daskalopoulou, M.  
 Peyerimhoff, S.D. → Engels, B.  
 Peyerimhoff, S.D. → Meier, U.  
 Peyerimhoff, S.D. → Thümmel, H.  
 Pfeufer, V. → Brüggemeyer, H.  
 Pflaum, R., Recknagel, E.: Sodium halide clusters: evidence for direct electronic fragmentation **12**, 249 (1989)  
 Pflaum, R. → Bréchnignac, C.  
 Pflaum, R. → Riefer, G.  
 Pflaum, R. → Schild, D.  
 Phillips, N.G. → Bloomfield, L.A.  
 Philpott, M.R. → Pacchioni, G.  
 Pichler, G. → Kowalczyk, P.  
 Pichler, G. → Windholz, L.  
 Picozzi, P. → De Crescenzi, M.  
 Picozzi, P. → Lozzi, L.  
 Pilkuhn, H., Schlaile, H.G.: Tables of vacuum polarization of excited states of light mesic atoms **15**, 321 (1990)  
 Pinnington, E.H., Ansbacher, W., Tauheed, A., Träbert, E., Heckmann, P.H., Möller, G., Blanke, J.H.: Beam-foil lifetime study of Al-like titanium, iron and nickel **17**, 5 (1990)  
 Pitaevskii, L., Stringari, S.: Superfluid effects in rotating helium clusters **16**, 299 (1990)  
 Pizzella, G. → Giardini Guidoni, A.  
 Plötze, O. → Hippler, R.  
 Pöcsik, I.: Lognormal distribution as the natural statistics of cluster systems **20**, 395 (1991)  
 Polezzo, S. → Fantucci, P.  
 Pollack, S. → Wang, C.R.C.  
 Pollack, St., Wang, C.R.C., Kappes, M.M.: Metal-insulator transitions in microclusters? Mixed sodium/sodium chloride aggregates **12**, 241 (1989)  
 Popescu-Pogrión, N. → Birjega, M.I.  
 Popov, A.K. → Butenko, A.V.  
 Poppa, H. → Henry, C.R.  
 Pospelov, M.E. → Khrilovich, I.B.  
 Poth, L. → Hartmann, A.  
 Potvliege, R.M., Shakeshaft, R.: High-order harmonic generation and Raman scattering by hydrogen in perturbation theory **11**, 93 (1989)  
 Press, M.R. → Liu, F.  
 Preuss, H. → Flad, J.  
 Putlitz, G. zu → Abshafen, M.  
**Q**  
 Quentmeier, A. → Sdorra, W.  
 Quint, W. → Lingbing, C.  
 Quinten, M., Sander, L., Steiner, P., Kreibig, U., Fauth, K., Schmid, G.: Photoemission on gold-55-clusters derived from gold-phosphine  $\text{AuP}(\text{C}_6\text{H}_5)_3\text{Cl}$  **20**, 377 (1991)  
 Quinten, M., Schönauer, D., Kreibig, U.: Electronic excitations in many-particle systems: a quantitative analysis **12**, 521 (1989)  
 Quinten, M. → Kreibig, U.  
 Quinten, M. → Schönauer, D.  
**R**  
 Rabin, I., Jackschath, C., Schulze, W.: Shell effects in singly and multiply charged silver and gold clusters **19**, 153 (1991)  
 Rabin, I., Jackschath, C., Schulze, W., Froben, F.W.: Silver-halogen cluster compounds  $\text{Ag}_n\text{X}_m$  ( $n \geq 2$ ;  $0 \leq m \leq n$ ;  $\text{X} = \text{F}, \text{Br}$ ) **19**, 401 (1991)  
 Rabus, H. → Arvanitis, D.  
 Rademann, K.: Photoelectron spectroscopy and UV/Vis-photoabsorption spectroscopy of isolated clusters **19**, 161 (1991)  
 Rademann, K., Kaiser, B., Rech, T., Hensel, F.: Vacuum UV-photoemission photoion coincidence spectroscopy of neutral metal atom clusters **12**, 431 (1989)  
 Rademann, K. → Becker, J.  
 Rademann, K. → Kaiser, B.  
 Rading, D. → Feld, H.  
 Rädle, M. → Ziegler, G.  
 Rafelski, J. → Soff, G.  
 Rafi, M., Ahmed, K., Khan, I.-A., Husain, M.R.: Ultraviolet bands of  $\text{Na}_2$  and  $\text{K}_2$  **18**, 379 (1991)  
 Raghavachari, K.: Theoretical studies on carbon and silicon clusters: comparison of the structures and stabilities of neutral and ionic forms **12**, 61 (1989)  
 Raina, G. → Kaiser, B.  
 Raina, G. → Müller, U.  
 Rama Krishna, M.V., Whaley, K.B.: Structure of small molecular hydrogen clusters **20**, 223 (1991)  
 Ramanathan, M. → Montano, P.A.  
 Ramarosan, E. → Vergand, F.  
 Ramirez-Solis, A., Daudey, J.P., Novaro, O., Ruiz, M.E.: Nonadditivity and the stability of  $\text{Ag}_3$ . A multireference configuration interaction study **15**, 71 (1990)  
 Rao, B.K., Khanna, S.N., Meng, J., Jena, P.: Geometries and binding energies of small beryllium clusters using various levels of approximations for exchange and correlation: a comparative study **18**, 171 (1991)  
 Rao, B.K. → Mahapatra, P.C.  
 Rao, P.M., Ahmad, S.A., Venugopalan, A., Saksena, G.D.: Isotope shifts and electronic configurations of the odd parity energy levels of singly ionised samarium **15**, 211 (1990)  
 Raoult, B., Farges, J., Feraudy, M.F. de, Torchet, G.: Stability of relaxed Lennard-Jones models made of 500 to 6000 atoms **12**, 85 (1989)  
 Raoult, B. → Torchet, G.  
 Rashid, K., Fricke, B., Blanke, J.H., Desclaux, J.-P.: Ground state correlation energy of the Be-sequence for  $Z=4-20$  in MCDF approximation **11**, 99 (1989)  
 Rashid, K. → Anagnostopoulos, D.F.  
 Rasigni, G. → Dussert, C.  
 Rasigni, M. → Dussert, C.  
 Rasmussen, H.D. → Bjørnholm, S.  
 Rauth, T. → Walder, G.  
 Rautian, S.G. → Butenko, A.V.  
 Ray, U. → Jarrold, M.F.  
 Rayane, D., Benamar, A., Melinon, P., Tribollet, B., Broyer, M.: Structure of small rare earth clusters **19**, 191 (1991)  
 Rayane, D., Melinon, P., Cabaud, B., Hoareau, A., Khardi, S., Tribollet, B., Broyer, M.: Electronic and chemical properties of indium clusters **12**, 411 (1989)  
 Rayane, D., Melinon, P., Cabaud, B., Hoareau, A., Tribollet, B., Broyer, M.: Evaporation of tetramers in  $\text{Sb}_{4n}$  clusters and conditions for the formation of  $\text{Sb}_{2n+1}$  clusters **12**, 217 (1989)  
 Rayane, D. → Benamar, A.  
 Reading, M. → Guerrero, A.  
 Rebel, H. → Dembczyński, J.  
 Rebertost, F. → Behmenburg, W.  
 Rech, T. → Rademann, K.  
 Recknagel, E. → Kandler, O.  
 Recknagel, E. → Leisner, T.  
 Recknagel, E. → Miehle, W.  
 Recknagel, E. → Pflaum, R.  
 Recknagel, E. → Riefer, G.  
 Recknagel, E. → Schild, D.  
 Reents, W.D. Jr. → Mandich, M.L.  
 Reese, C., Strauß, Th., Elbel, M.: Exchange interaction during electron capture in  $\text{Ar}^{2+}$ , K-collisions **18**, 69 (1991)  
 Regnier, S., Gillet, M.: Growth mechanism of gold particles on  $\text{Al}_2\text{O}_3$  substrates **19**, 311 (1991)  
 Reichert, E. → Naß, P.  
 Reindl, S.L., Pastor, G.M., Bennemann, K.H.: On the stability of  $\text{Pb}_n^{2+}$ -clusters **20**, 133 (1991)  
 Reinhardt, D. → Hall, B.D.  
 Reinhardt, J. → Vassilev, G.  
 Reistad, N. → Träbert, E.  
 Renou, A., Penisson, J.M., Gillet, M.F.: Atomic structural rearrangements induced by electron beam heating of coalesced particles **12**, 139 (1989)  
 Renou, A. → Desrousseaux, G.  
 Renou, A. → Penisson, J.M.  
 Renou, A. → Robrieux, B.  
 Reuse, F. → Coulon, V. de  
 Reuse, F. → Khanna, S.N.  
 Reuse, F. → Moullet, I.  
 Reuss, J. → Liedendaum, C.  
 Révai, J.: Exactly soluble model of a quantum system in external field with periodic time dependence **16**, 129 (1990)  
 Reynaud, C. → Bodeur, S.  
 Rhème, Ch. → Rymuza, P.  
 Ricci, M., Gillet, M.: Adhesion of small particles of lalladium on  $\text{Al}_2\text{O}_3$  **19**, 315 (1991)  
 Richter, C. → Dowek, D.  
 Richter, J. → Hermann, G.  
 Richter, T. → Haberland, H.

- Riedle, E. → Weber, Th.  
 Riefer, G., Höckstaller, M., Jerger, Th., Nassal, B., Pflaum, R., Recknagel, E.: Superconducting lead cluster films with particle size dependent reduction of  $T_c$  **20**, 337 (1991)  
 Riefer, G. → Schild, D.  
 Riera, A. → Errea, L.F.  
 Riley, S.J.: Reactivity of free clusters **12**, 537 (1989)  
 Riley, S.J. → Winter, B.J.  
 Rinkieff, R.-H., Steudel, A., Zeiske, K.: Stark effect study of the  $4f^6 6s^2$   $^7F_{1,2,3,4,5,6}$  levels of samarium using non-linear level crossing technique **18**, 101 (1991)  
 Risch, A. → Haberland, H.  
 Rivarola, R. → Gayet, R.  
 Rivoal, J.C., Grisolia, C., Lignieres, J., Kreisle, D., Fayet, P., Wöste, L.: Absorption spectroscopy of size-selected trimers and pentamers transition metal clusters isolated in rare gas solids: preliminary steps **12**, 481 (1989)  
 Rivoal, J.C. → Lignieres, J.  
 Robert, J. → Vassilev, G.  
 Robles, J., Iñiguez, M.P., Alonso, J.A., Mañanes, A.: Immersion of hydrogen atoms in aluminium clusters. A density functional pseudopotential study **13**, 269 (1989)  
 Robra, U., Zacharias, H., Welge, K.H.: Near threshold channel selective photodissociation of  $\text{NO}_2$  **16**, 175 (1990)  
 Robrieux, B., Desrousseaux, G., Renou, A., Gillet, M.: Morphology determination of small particles by electron microscopy and electrical conduction measurements **12**, 27 (1989)  
 Robrieux, B. → Desrousseaux, G.  
 Roche, R. → Lègaré, P.  
 Román, C.E., Garzón, I.L.: Evaporation of Lennard-Jones clusters **20**, 163 (1991)  
 Rösch, N., Sandl, P., Knappe, P., Göring, A., Dunlap, B.I.: On the splitting of the  $\text{CO } \pi^*$  level in the chemisorption system  $\text{CO/Ni (111)}$ : substrate or lateral interaction? **12**, 547 (1989)  
 Rosén, A., Wästberg, B.: Electronic structure of spheroidal metal containing carbon shells: study of the  $\text{LaC}_{60}$  and  $\text{C}_{60}$  clusters and their ions within the local density approximation **12**, 387 (1989)  
 Rosén, A. → Braga, M.  
 Rosén, A. → Wästberg, B.  
 Rösler, M., Görnert, P., Sinn, E.: Structural and magnetic properties of Ba-ferrite fine particles grown by glass crystallization **19**, 279 (1991)  
 Ross, A.W. → Fink, M.  
 Ross, A.W. → Zhang, Y.  
 Rossi-Alvarez, C. → Bazzacco, D.  
 Roth, A., Gerz, Ch., Wilsdorf, D., Werth, G.: Lifetime of the metastable  $6P_{3/2}$  level of  $\text{PbII}$  **11**, 283 (1989)  
 Rothard, H. → Kemmler, J.  
 Röthlisberger, U., Andreoni, W.: Temperature-induced structural transitions and vibrational properties of microclusters: ab-initio molecular dynamics studies **20**, 243 (1991)  
 Röthlisberger, U., Schär, M., Schumacher, E.: Internal temperatures of neutral sodium clusters: a "PIE-thermometer" **13**, 171 (1989)  
 Rottke, H., Wolff, B., Tapernon, M., Welge, K.H., Feldmann, D.: Resonant multiphoton ionization of xenon in intense sub-ps-laser pulses **15**, 133 (1990)  
 Roulet, H. → Vergand, F.  
 Rouquerol, J. → Guerrero, A.  
 Roux, J.Ph. → Bréchnignac, C.  
 Rox, T. → Gerlich, D.  
 Rozsa, K. → Walder, G.  
 Rubio, A., Balbás, L.C., Alonso, J.A.: Response properties of sodium clusters within a jellium-like model with finite surface thickness **19**, 93 (1991)  
 Rubio, A., Balbás, L.C., Vega, A.: Theoretical study of the stability  $X_n^+(n = -1, 0, +1, +2; X = \text{Ag, Cu; } N \leq 25)$  clusters as a function of size using a non-local density functional formalism **12**, 209 (1989)  
 Rubio, A. → Serra, L.I.  
 Rudolph, A. → Ahlrichs, R.  
 Rudolph, A. → Buck, U.  
 Rudziński, J.M. → Slanina, Z.  
 Ruf, M.-W. → Bregel, T.  
 Ruf, M.-W. → Harth, K.  
 Ruf, M.-W. → Kraft, T.  
 Ruf, M.-W. → Schohl, S.  
 Ruf, M.-W. → Yench, A.J.  
 Ruijgrok, Th.W. → Hersbach, H.  
 Ruitenbeck, J.M. van: Orbital magnetism in finite size systems **19**, 247 (1991)  
 Ruitenbeck, J.M. van, Jurgens, M.J.G.M., Schmid, G., Leeuwen, D.A. van, Zandbergen, H.W., Jongh, L.J. de: Metallic susceptibility in a giant molecule:  $\text{Pd}_{561}\text{Phen}_{36}\text{O}_{200}$  **19**, 267 (1991)  
 Ruitenbeck, J.M. van → Jongh, L.J. de  
 Ruiz, M.E. → Ramirez-Solis, A.  
 Rumrich, K. → Mehler, G.  
 Russo, N. → Oranges, T.  
 Rymuza, P., Sujkowski, Z., Carlen, M., Dousse, J.-Cl., Gasser, M., Kern, J., Perny, B., Rhème, Ch.: Distribution of  $K_\alpha L^*$  satellite yields for medium  $Z$  elements bombarded with  $^{16}\text{O}$  ions **14**, 37 (1989)  
 S  
 Sadoc, J.F. → Mosseri, R.  
 Safonov, V.P. → Butenko, A.V.  
 Saito, S., Cohen, M.L.: Jellium-model calculation for monomer and dimer decays of some potassium clusters **12**, 205 (1989)  
 Saito, S., Ohnishi, S., Satoko, C., Sugano, S.: Triangle contraction in six-membered-ring silicon clusters **14**, 237 (1989)  
 Saito, Y., Ito, H., Katakuse, I.: Magic numbers in sils of Mn similar to those of charged Ar clusters **19**, 189 (1991)  
 Saito, Y., Maki, T., Okazaki, T., Mihama, K.: Fine particles of icosahedral quasicrystal formed by gas evaporation technique **12**, 127 (1989)  
 Saito, Y., Minami, K., Ishida, T., Noda, T.: Abundance of Na cluster ions ejected from a liquid metal ion source **11**, 87 (1989)  
 Saito, Y., Noda, T.: Bimetallic cluster cations ejected from a liquid metal ion source: Li-Na and Li-Mg **19**, 129 (1991)  
 Saito, Y., Noda, T.: Cluster cations ejected from liquid metal ion source: alkali metals (Li, Na) and group IV elements (Si, Ge, Sn, Pb) **12**, 225 (1989)  
 Saito, Y., Okazaki, T., Ohshita, A., Mihama, K.: Spectroscopic study on the crystal growth in gas evaporation: emission and absorption spectra from Cu smoke **20**, 403 (1991)  
 Sakaue, H.A., Ikezaki, Y., Takayanagi, T., Wakiya, K., Koike, F., Suzuki, H., Yagishita, A.: Alignment of atomic autoionizing states created by slow  $\text{Li}^+ + \text{Ne}$  collisions **15**, 301 (1990)  
 Saksena, G.D. → Rao, P.M.  
 Salahub, D.R. → Goursot, A.  
 Salzborn, E. → Hofmann, G.  
 Salzborn, E. → Müller, A.  
 Salzmann, T. → Dusemund, B.  
 Sander, I. → Quinten, M.  
 Sandl, P. → Rösch, N.  
 Sandner, W. → Lange, V.  
 Sano, M. → Matsuo, S.  
 Santandrea, C.J. → Walters, E.A.  
 Santos, M.C. dos, Aguiar, J.A.O. de: Molecular orbital calculations on transition metal clusters **12**, 391 (1989)  
 Santos Aires, F., Treilleux, M., Fuchs, G., Hoareau, A., Melinon, P., Cabaud, B.: Size distribution of Bi clusters deposits on amorphous carbon substrates **12**, 149 (1989)  
 Santos Aires, F. → Treilleux, M.  
 Santucci, S. → De Crescenzi, M.  
 Santucci, S. → Lozzi, L.  
 Sañudo, J. → Mañanes, A.  
 Sarantopoulou, E. → Skordoulis, C.  
 Sarkas, H.W. → Lee, G.H.  
 Sarkas, H.W. → McHugh, K.M.  
 Sassenberg, U. → Doverstål, M.  
 Sato, H. → Shinohara, H.  
 Satoh, N. → Hasegawa, H.  
 Satoko, C. → Saito, S.  
 Satou, S. → Matsuo, S.  
 Sattler, K.: Scanning tunneling microscopy and spectroscopy for cluster and small particle research **19**, 287 (1991)  
 Sattler, K. → Kaiser, B.  
 Sattler, K. → Müller, U.  
 Saunders, W.A.: Optical and chemical studies of II-VI compound clusters **12**, 601 (1989)  
 Saunders, W.A., Dam, N.: Liquid drop model of multiply charged metal cluster fission **20**, 111 (1991)  
 Saunders, W.A. → Dam, N.  
 Sawada, S., Sugano, S.: Dynamics of transition-metal clusters **12**, 189 (1989)  
 Sawada, S., Sugano, S.: Structural fluctuation and atom-permutation in transition-metal clusters **14**, 247 (1989)  
 Sawada, S., Sugano, S.: Theory of the structural fluctuation of  $\text{Au}_{35}$  clusters **20**, 259 (1991)  
 Sawatzky, G., Winkler, R.: Isotope shift and hyperfine structure in the iridium I spectrum **14**, 9 (1989)  
 Schaefer, J., Köhler, W.E.: Low temperature second virial coefficients of para- $\text{H}_2$  gas

- obtained from quantum mechanical pair correlation functions **13**, 217 (1989)
- Schaefer, J., McKellar, A.R.W.: Faint features of the rotational  $S_0(0)$  and  $S_0(1)$  transitions of  $H_2$ . A comparison of calculations and measurements at 77 K (Erratum) **17**, 231 (1990)
- Schaefer, J., McKellar, A.R.W.: Faint features of the rotational  $S_0(0)$  and  $S_0(1)$  transitions of  $H_2$ . A comparison of calculations and measurements at 77 K **15**, 51 (1990)
- Schaefer, J. → Dilling, W.
- Schaffar, H. → Desrousseaux, G.
- Schall, H., Breiten, H., Knorr, K.H., Kempter, V.: Excitation in low-energy  $Li^+$  collisions with cesiated  $W(110)$  surfaces: alignment and orientation of the collisionally excited  $Li(2p)$  state **16**, 161 (1990)
- Schär, M. → Röthlisberger, U.
- Scharf, D. → Heidenreich, A.
- Scharf, D. → Jortner, J.
- Scharmann, A. → Anton, M.
- Scharmann, A. → Hermann, G.
- Schartner, K.-H. → Anton, M.
- Scheid, W. → Momberger, K.
- Scheidemann, A. → Selby, K.
- Scheier, P. → Foltin, M.
- Scheier, P. → Märk, T.D.
- Scheier, P. → Stamatovic, A.
- Scheier, P. → Walder, G.
- Schek, I. → Heidenreich, A.
- Scherf, M. → Keim, M.
- Schermann, J.P. → Desfrancois, C.
- Scheuer, F. → Müller, D.
- Schild, D., Pflaum, R., Riefer, G., Recknagel, E.: Enrichment of Zintl cluster ions **12**, 235 (1989)
- Schlaile, H.G. → Pilkuhn, H.
- Schleicher, B., Jung, Th., Hug, H., Bartscher, H.: Ultrafine particles adsorbed on HOPG measured by STM **19**, 327 (1991)
- Schlüter, D.: Gaunt factors for free-free transitions in the fields of positive ions of carbon, nitrogen, and oxygen, calculated in the Scaled Thomas-Fermi approximation **11**, 273 (1989)
- Schmid, G. → Aguiar, J.A.O. de
- Schmid, G. → Benfield, R.E.
- Schmid, G. → Dusemund, B.
- Schmid, G. → Fauth, K.
- Schmid, G. → Feld, H.
- Schmid, G. → Goll, G.
- Schmid, G. → Jongh, L.J. de
- Schmid, G. → Quinten, M.
- Schmid, G. → Ruitenbeek, J.M. van
- Schmid, G. → Staveren, M.P.J. van
- Schmidt, B. → Ahlrichs, R.
- Schmidt, M., Mons, M., Le Calvé, J.: Inter-molecular vibronic spectroscopy of small Van Der Waals clusters: phenol- and aniline-(argon)<sub>2</sub> complexes **17**, 153 (1990)
- Schmidt, M. → Haberland, H.
- Schmidt-Böcking, H. → Wintermeyer, G.
- Schmidt-Ott, A. → Bartscher, H.
- Schmiedeskamp, B. → Kessler, B.
- Schnabel, P. → Irion, M.P.
- Schnecke, A. → Grosser, J.
- Schnering, H.G. v. → Wedig, U.
- Schoeller, W.W. → Busch, T.
- Schohl, S., Müller, M.W., Meijer, H.A.J., Ruf, M.-W., Hotop, H., Morgner, H.: The state dependence of the interaction of metastable rare gas atoms  $Rg^*(ms\ ^3P_2, ^3P_0)$  ( $Rg = Ne, Ar, Kr, Xe$ ) with ground state sodium atoms **16**, 237 (1990)
- Schönauer, D., Lauer, H., Kreibig, U.: Optical extinction on free, supported and embedded metal clusters **20**, 301 (1991)
- Schönauer, D., Quinten, M., Kreibig, U.: Precursor-states of percolation in quasi-fractal many-particle-systems **12**, 527 (1989)
- Schönauer, D. → Kreibig, U.
- Schönauer, D. → Quinten, M.
- Schuch, R. → Wintermeyer, G.
- Schühle, U. → Kowalczyk, P.
- Schulte, J.: On the structure and stability of  $Ar_n$  and  $Ar_n^+$  clusters at finite temperature **20**, 147 (1991)
- Schulte, J. → Franke, G.
- Schulte, U. → Hoheisel, W.
- Schulz, C.P., Gerber, A., Nitsch, C., Hertel, I.V.: Spectroscopy of free sodium-ammonia clusters **20**, 65 (1991)
- Schulz, C.P. → Goerke, A.
- Schulze, W. → Charlé, K.P.
- Schulze, W. → Montano, P.A.
- Schulze, W. → Rabin, I.
- Schumacher, E. → Röthlisberger, U.
- Schütz, M., Wülfert, S., Leutwyler, S.: Microscopic solvation: spectroscopic results vs. Monte Carlo simulations **20**, 247 (1991)
- Schütz, M. → Leutwyler, S.
- Schweikhard, L. → Lindinger, M.
- Schwier, H. → Hippler, R.
- Schwinger, J.: Nuclear energy in an atomic lattice. I **15**, 221 (1990)
- Sdorra, W., Quentmeier, A., Niemax, K.: Measurement of atomic fine structure collision transfer cross sections in laser produced vapours **13**, 95 (1989)
- Sceck, S. → Kaiser, D.
- Seidl, M., Spina, M.E., Brack, M.: Semi-classical variational calculation of liquid-drop model coefficients for metal clusters **19**, 101 (1991)
- Seifert, G., Jones, R.O.: Geometric and electronic structure of clusters **20**, 77 (1991)
- Seifert, G. → Friedrich, K.
- Seifert, P., Weber, D.-J., Kronfeldt, H.-D., Winkler, R.A.: Parametric analysis of the isotope shift and hyperfine structure in the Eu I configuration  $4f^7 5d 6s$  **14**, 99 (1989)
- Selby, K., Kresin, V., Masui, J., Vollmer, M., Scheidemann, A., Knight, W.D.: Optical spectra of sodium microclusters **19**, 43 (1991)
- Selby, K., Vollmer, M., Masui, J., Kresin, V., Heer, W.A. de, Knight, W.D.: Investigation of surface plasma resonances in small sodium clusters **12**, 477 (1989)
- Selinger, A. → Irion, M.P.
- Sepp, W.-D. → Blanke, J.H.
- Serra, L.L., Garcias, F., Barberán, N., Barranco, M., Navarro, J., Rubio, A.: The response of metal clusters to  $q$ - and  $L$ -dependent external fields **19**, 89 (1991)
- Serra, L.L., Garcias, F., Barranco, M., Navarro, J., Van Giai, N.: Collective excitations of  $^3He$  clusters **20**, 277 (1991)
- Sesé, L.M.: Environmental effects on molecules immersed in liquids **17**, 195 (1990)
- Sevastianov, B.N. → Kupriyanov, D.V.
- Shakeshaft, R.: Ejection of high-energy photoelectrons by intense laser light **14**, 271 (1989)
- Shakeshaft, R.: Ejection of high-energy photoelectrons by intense laser light (Erratum) **15**, 181 (1990)
- Shakehaft, R. → Potvliege, R.M.
- Shalaev, V.M. → Butenko, A.V.
- Shenoy, G.K. → Montano, P.A.
- Sherwood, R.D. → Cox, D.M.
- Shim, I., Gingerich, K.A.: Electronic states and nature of bonding of the molecule  $NiSi$  by all electron ab initio HF-CI and CASSCF calculations **16**, 141 (1990)
- Shim, I., Gingerich, K.A.: The nickel group IV molecules  $NiC$ ,  $NiSi$ , and  $NiGe$  **12**, 373 (1989)
- Shinohara, H., Sato, H., Misaizu, F., Ohashi, K., Nishi, N.: Metastable dissociation dynamics of molecular cluster ions **20**, 197 (1991)
- Shinohara, H. → Nishi, N.
- Shiromaru, H., Moriwaki, T., Kittaka, C., Achiba, Y.: Collisional electron emission at solid surfaces induced by mass selected negative cluster ions **20**, 141 (1991)
- Shiromaru, H. → Achiba, Y.
- Shirsat, N. → Gadre, S.R.
- Shukla, C.P. → Korsch, H.J.
- Siekman, H.R., Lüder, Ch., Faehrmann, J., Lutz, H.O., Meiwes-Broer, K.H.: The pulsed arc cluster ion source (PACIS) **20**, 417 (1991)
- Silverans, R.E., Vermeeren, L., Neugart, R., Lievens, P., ISOLDE Collaboration: Hyperfine structure constants of the  $CaII$  states  $4s\ ^2S_{1/2}$  and  $4p\ ^2P_{1/2, 3/2}$  and the nuclear quadrupole moment of  $^{43}Ca$  **18**, 351 (1991)
- Siminski, A. → Aufmuth, P.
- Simonović, N. → Dimitrijević, M.S.
- Simons, L.M. → Missimer, J.
- Singh, P.P., Dy, K.S.: Evolution of bulk-like properties in mercury microclusters **17**, 309 (1990)
- Sinn, E. → Rösler, M.
- Sinn, G. → Kronfeldt, H.-D.
- Skordoulis, C., Sarantopoulou, E., Spyrou, S.M., Kosmidis, C., Cefalas, A.C.: Laser induced fluorescence (LIF) of  $Hg_2$  and  $Hg_3$  via dissociation of  $HgBr_2$  at 157 nm **18**, 175 (1991)
- Slabko, V.V. → Butenko, A.V.
- Slaby, J. → Abshafen, M.
- Slanina, Z., Rudziński, J.M., Osawa, E.:  $C_n$  carbon clusters ( $n=4-6, 60, 70$ ): interesting cases of computation/observation comparisons **19**, 431 (1991)
- Smalley, R.E. → Maruyama, S.
- Smilansky, U. → Blümel, R.
- Smit, H.H.A., Thiel, R.C., Jongh, L.J. de: The thermal motion of gold atoms in metal cluster compounds as determined by Mössbauer and specific heat **12**, 193 (1989)
- Smit, H.H.A. → Jongh, L.J. de
- Sobolewski, A.L. → Staib, A.
- Soff, G.: Higher-order vacuum polarization



- charge densities for spherical symmetric external potentials **11**, 29 (1989)
- Soff, G., Rafelski, J.: Radiative muon capture in light atoms **14**, 187 (1989)
- Soff, G. → Franosch, T.
- Soff, G. → Matzdorf, R.
- Soff, G. → Mehler, G.
- Sokolov, I.M. → Lerner, P.B.
- Soler, J.M. → Iñiguez, M.P.
- Solgadi, D. → Dedonder-Lardeux, C.
- Sondericker, D. → Cox, D.M.
- Sone, Y. → Nakajima, A.
- Sone, Y. → Nonose, S.
- Sotelo, J.A., Niklasson, G.A.: Optical properties of fractal clusters of small metallic particles **20**, 321 (1991)
- Speidel, K.-H. → Hagelberg, F.
- Spekowitz, G. → Brüggemeyer, H.
- Spiegelmann, F., Blaise, P., Malrieu, J.P., Maynau, D.: Electronic correlation and effective interactions in small alkali clusters **12**, 341 (1989)
- Spina, M.E., Brack, M.: A simple semiclassical model for ionic structure effects in large metal clusters **17**, 225 (1990)
- Spina, M.E. → Seidl, M.
- Spyrou, S.M. → Skordoulis, C.
- Srećković, A. → Djenize, S.
- Stachowska, E. → Aydin, R.
- Stachura, Z. → Meierkord, W.
- Staemmler, V.: Ab initio study of small He cluster ions  $\text{He}_n^+$ ,  $n=2, 3, 4, 5$ , and low-lying Rydberg states of  $\text{He}_4$  **16**, 219 (1990)
- Staemmler, V.: CEPA calculations on open-shell molecules. XI. The two lowest electronic states of  $\text{HeAr}^+$  **16**, 167 (1990)
- Staemmler, V. → Jonas, R.
- Staib, A., Domcke, W.: Analysis of the Jahn-Teller effect in the  $np^2 E'$  Rydberg series of  $\text{H}_2$  and  $\text{D}_3$  **16**, 275 (1990)
- Staib, A., Domcke, W., Sobolewski, A.L.: Jahn-Teller effect in Rydberg series: a multi-state vibronic coupling problem **16**, 49 (1990)
- Stamatovic, A., Howorka, F., Scheier, P., Märk, T.D.: Fragmentation of neutral van der Waals clusters with visible laser light: a new variant of the Raman effect? **12**, 275 (1989)
- Stamatovic, A. → Märk, T.D.
- Stamatovic, A. → Walder, G.
- Stampfli, P., Bennemann, K.H.: Theory for excess electrons in clusters of rare gas atoms **20**, 53 (1991)
- Stampfli, P. → Baladrón, C.
- Stampfli, P. → Pastor, G.M.
- Stapelfeldt, J., Wörmer, J., Zimmerer, G., Möller, T.: Fluorescence of rare gas clusters excited with synchrotron radiation **12**, 435 (1989)
- Staveren, M.P.J. van, Brom, H.B., Jongh, L.J. de, Schmid, G.: NMR in metal cluster compounds compared to glasses **20**, 333 (1991)
- Staveren, M.P.J. van, Brom, H.B., Jongh, L.J. de, Schmid, G.: NMR of metal-core bonded  $^{31}\text{P}$  in polynuclear metal cluster compounds **12**, 451 (1989)
- Staveren, M.P.J. van, Moonen, J.T., Brom, H.B., Jongh, L.J. de, Schmid, G.: Ac and dc electrical conductivity of polynuclear metal cluster compounds **12**, 461 (1989)
- Staveren, M.P.J. van → Brom, H.B.
- Staveren, M.P.J. van → Jongh, L.J. de
- Stefani, G. → Avaldi, L.
- Steger, H. → Kaiser, E.
- Steger, H. → Krauss, J.
- Steigerwald, F. → Fiedler, J.
- Steiner, P. → Quinten, M.
- Steudel, A. → Aufmuth, P.
- Steudel, A. → Rinkleff, R.-F.
- Stockman, M.I. → Butenko, A.V.
- Stoll, H. → Flad, J.
- Stolte, S. → Liedenbaum, C.
- Strakhova, S.I. → Grum-Grzhimailo, A.N.
- Sträter, H.D. → Müller, D.
- Strauß, Th. → Reese, C.
- Stringari, S.: Quantum statistical effects in helium clusters **20**, 219 (1991)
- Stringari, S. → Bertsch, G.F.
- Stringari, S. → Brink, D.M.
- Stringari, S. → Lipparini, E.
- Stringari, S. → Pitaevskii, L.
- Sturesson, L. → Carlsson, J.
- Sturm, J., Grosse, P., Theiß, W.: Effective dielectric functions of samples obtained by evaporation of alkali halides **20**, 341 (1991)
- Sugano, S., Tamura, A., Ishii, Y.: Theory of fragmentation of metal clusters **12**, 213 (1989)
- Sugano, S. → Nakamura, M.
- Sugano, S. → Saito, S.
- Sugano, S. → Sawada, S.
- Sugino, O., Kamimura, H.: A localized-orbital Hartree-Fock description of alkali metal clusters **19**, 67 (1991)
- Sujkowski, Z. → Rymuza, P.
- Sur, S. → Mukherjee, T.
- Suzuki, A. → Takami, M.
- Suzuki, H. → Sakaue, H.A.
- Suzuki, M. → Matsuo, S.
- Svanberg, S. → Carlsson, J.
- Svanberg, S. → Jiang, Z.
- Szmytkowski, C.Z.: On trends in total cross section for electron (positron) scattering on atoms and molecules at intermediate energies **13**, 69 (1989)
- Szombathely, M. v. → Bräuer, P.
- T**
- Tabakova, T. → Mitov, I.
- Takami, M., Mizugai, Y., Maeda, H., Matsuo, Y., Suzuki, A.: High resolution MW spectroscopy of Rydberg clusters for the studies of small metal cluster ions: a preliminary experiment **20**, 407 (1991)
- Takayanagi, K. → Mitome, M.
- Takayanagi, T. → Sakaue, H.A.
- Talukdar, B. → Bhattacharya, J.
- Tamura, A. → Nakamura, M.
- Tamura, A. → Sugano, S.
- Tanaka, N. → Mihama, K.
- Tanaka, N. → Yoshizaki, F.
- Tandon, P.N. → Hagelberg, F.
- Tanishiro, V. → Mitome, M.
- Tapernon, M. → Rottke, H.
- Tarantelli, F. → Weikert, H.-G.
- Tarento, R.J. → Joyes, P.
- Tarento, R.J. → Van de Walle, J.
- Tauheed, A. → Pinnington, E.H.
- Tazi, T. → Coq, B.
- Tazi, T. → Gourso, A.
- Teghil, R. → Giardini Guidoni, A.
- Tempère, J.F. → Vergand, F.
- Theiß, W. → Sturm, J.
- Thekkadath, G. → Drescher, A.
- Thiel, R.C. → Jongh, L.J. de
- Thiel, R.C. → Smit, H.H.A.
- Thies, B. → Blanke, J.H.
- Thölen, A.: Electron microscope studies of the regular twinning structure and the grain boundary structure in a system of cobalt particles **12**, 123 (1989)
- Thoma, M. → Albiez, A.
- Thümmel, H., Perić, M., Peyerimhoff, S.D., Buenker, R.J.: Ab initio calculation of the potential surfaces for low-lying valence electronic state of the  $\text{C}_2\text{H}$  radical **13**, 307 (1989)
- Thurner, Y. → Dresch, T.
- Tietz, R. → Conrad, N.
- Tiggesbäumker, J. → Begemann, W.
- Tinschert, K. → Hofmann, G.
- Tinschert, K. → Müller, A.
- Tolle, M. → Buck, U.
- Tomiya, S., Kawamura, K.: Optical absorption of small metallic particles **12**, 469 (1989)
- Tomková, E., Mašek, K., Matolin, V.: Catalytic activity of small supported  $\text{Pd}/\text{Al}_2\text{O}_3$  particles: CO oxidation (Erratum) **13**, 77 (1989)
- Tomov, T. → Mitov, I.
- Torchet, G.: Size effects in the solid phase transition of  $\text{SF}_6$  clusters **20**, 251 (1991)
- Torchet, G., Farges, J., Feraudy, M.F. de, Raoult, B.: Structural transitions in  $\text{SF}_6$  clusters **12**, 93 (1989)
- Torchet, G. → Raoult, B.
- Toscano, M. → Oranges, T.
- Träbert, E., Reistad, N., Martinson, I., Hut-ton, R.: Beam-foil lifetime data for  $3s\ 3p^3$  and  $3s^2\ 3p\ 3d$  levels of Si-like  $\text{Ni}^{14+}$  **11**, 207 (1989)
- Träbert, E. → Blanke, J.H.
- Träbert, E. → Möller, G.
- Träbert, E. → Pinnington, E.H.
- Träger, F. → Abshafen, M.
- Träger, F. → Hoheisel, W.
- Tramer, A. → Dedonder-Lardeux, C.
- Treilleux, M., Fuchs, G., Santos Aires, F., Melinon, P., Hoareau, A., Cabaud, B.: Evidence of liquid state for small bismuth particles **20**, 263 (1991)
- Treilleux, M., Fuchs, G., Santos Aires, F., Melinon, P., Hoareau, A., Cabaud, B.: Lattice imaging of bismuth clusters **12**, 131 (1989)
- Treilleux, M. → Santos Aires, F.
- Tribollet, B. → Benamar, A.
- Tribollet, B. → Rayane, D.
- Troxler, T. → Leutwyler, S.
- Tserruya, I. → Wintermeyer, G.
- Tsujii, K. → Hasegawa, H.
- Tsukada, M.: Electron transfer processes in scanning tunneling spectroscopy through small supported particles **19**, 283 (1991)
- Twu, Y.J. → Bloomfield, L.A.
- Tzeng, W.B. → Wei, S.

## U

- Ugarte, D., Colliex, C.: Investigation of local chemical and electronic properties of small particles with EELS point analysis and image energy filtering in a STEM **12**, 333 (1989)
- Uhrig, A., Banyai, L., Gaponenko, S., Wörner, A., Neuroth, N., Klingshirn, C.: Linear and nonlinear optical studies of  $\text{CdS}_{1-x}\text{Se}_x$  quantum dots **20**, 345 (1991)
- Ulbricht, M. → Blanc, J.
- Ulm, G. → Neu, W.
- Unkel, P., Buch, P., Dembczyński, J., Ertmer, W., Johann, U.: Sternheimer free determination of the  $^{51}\text{V}$  nuclear quadrupole moment from hyperfine structure measurements **11**, 259 (1989)
- Unkel, P. → Aydin, R.
- Urban, J. → Altenhein, C.
- Urban, J. → Giorgio, S.
- Urbschat, H. → Mahnke, R.

## V

- Vager, Z., Feldman, H., Kella, D., Malkin, E., Miklazky, E., Zajfman, J., Naaman, R.: The structure of small carbon clusters **19**, 413 (1991)
- Vala, M. → Pellow, R.
- Valance, A. → Bergeron, H.
- Van de Walle, J., Joyes, P.: Role of fragmentation processes in the liquid metal ion source production of aggregates **12**, 221 (1989)
- Van de Walle, J., Tarento, R.J., Joyes, P.: Experimental (LMIS) and theoretical study of  $\text{Si}_n\text{Au}_m^+$  and  $\text{Ge}_n\text{Au}_m^+$  **20**, 17 (1991)
- Van de Walle, J. → Joyes, P.
- Van Giai, N. → Serra, L.
- Vansteenkiste, N. → Kaiser, R.
- Vassilev, G., Perales, F., Miniatura, Ch., Robert, J., Reinhardt, J., Vecchiocattivi, F., Baudon, J.: Collisions at thermal energy between metastable hydrogen atoms and hydrogen molecules: total and differential cross sections **17**, 101 (1990)
- Vasyutinskii, O.S. → Kupriyanov, D.V.
- Vecchiocattivi, F. → Vassilev, G.
- Veer, W.E. v.d., Dönszelmann, A.: Lifetimes and perturbations of the  $3d^9 4s ({}^2D) 4p$  structure in the spectrum of copper I **17**, 159 (1990)
- Vega, A., Dorantes-Dávila, J., Pastor, G.M., Balbás, L.C.: Magnetic properties of 3d-transition-metal alloy clusters:  $(\text{Fe}_x\text{Cr}_{1-x})_n$  **19**, 263 (1991)
- Vega, A. → Rubio, A.
- Veldt, T. van der → Lahaye, C.T.W.
- Venkateswaran, N. → Kaiser, B.
- Venkateswaran, N. → Müller, U.
- Venugopalan, A. → Rao, P.M.
- Vergand, F., Roulet, H., Dufour, G., Bonnelle, C., Ramaroson, E., Tempère, J.F., Guilleux, M.F., Delafosse, D.: Electron distribution on small Ni particles and Ce ions in X and Y zeolites related to their catalytic properties **12**, 425 (1989)
- Vermeeren, L. → Silverans, R.E.
- Vermeiren, W.J.M. → Grobet, P.J.
- Vermeulen, G., Elbel, M., Laloë, F.: Sound velocity in spin polarized quantum gases **15**, 13 (1990)
- Vidolova-Angelova, E.P., Angelov, D.A., Mincheva, S.T., Fedoseev, V.N., Mishin, V.I., Zuzikov, A.D.: Tm autoionization Rydberg states in the vicinity of the third and fourth atomic ionization limit **13**, 115 (1989)
- Villemaes, P., Wännström, A., Arnesen, A., Hallin, R., Heijkenskjöld, F., Kastberg, A., Nordling, C., Vogel, O.: Hyperfine structure of Mn II by fast ion beam-laser spectroscopy **18**, 235 (1991)
- Vitturi, A. → Lipparini, E.
- Vivie-Riedle, R. de, Hering, P., Kompa, K.L.: CARS spectroscopy of the  $\text{NaH}_2$  collision complex: the nature of the  $\text{Na}(3^2P)\text{H}_2$  exciplex - ab initio calculations and experimental results **17**, 299 (1990)
- Vogel, M. → Lindinger, M.
- Vogel, O. → Villemaes, P.
- Vogel, W. → Gnutzmann, V.
- Vogelsberger, W., Müller, E.: Some problems concerning the definition of a dividing surface and its influence on the calculation of thermodynamical parameters of small clusters **20**, 353 (1991)
- Vogelsberger, W. → Fritzsche, H.G.
- Vogt, B. → Kessler, B.
- Voigt, H. → Grosser, J.
- Vojtik, J., Češpiva, L., Fíler, J., Penders-Vaňková, E.: Model study of the nonadiabatic effects in the interaction of atomic hydrogen with lithium metal clusters **19**, 389 (1991)
- Vollmer, M. → Hoheisel, W.
- Vollmer, M. → Selby, K.
- Vollmer, W. → Meierkord, W.
- Vostrikov, A.A., Dubov, D.Yu.: Cluster generation in expansions of pure water vapour and of mixtures with carbon dioxide **20**, 429 (1991)
- Vostrikov, A.A., Dubov, D.Yu.: Surface induced ionization of neutral water clusters **20**, 61 (1991)
- Vostrikov, A.A., Gilyova, V.P., Dubov, D.Yu.: Cluster size effect on electron-induced luminescence **20**, 205 (1991)
- Vries, J. de → Kaiser, E.
- Vries, J. de → Kamke, W.
- Vries, J. de → Krauss, J.
- Vujičić, B.T., Djurović, S., Halenka, J.: The Stark broadening of the He I 667.8 nm line **11**, 119 (1989)
- W
- Waal, B.W. van de: An atomic-scale model of fcc crystal-growth **20**, 349 (1991)
- Wagner, C. → Möller, G.
- Wago, K. → Kobayashi, S.
- Wagué, A.: Intermediate-coupling effects on the  $n=2$  resonant photo-ionization of multiply-charged helium-like ions **13**, 123 (1989)
- Wague, A.: Resonance photoionisation of the metastable  $2^{1,3}S$  helium near the  $n=2$  and  $n=3$  excitation thresholds of He **15**, 199 (1990)
- Wahl, H. → Dietrich, K.G.
- Waibel, H. → Bregel, T.
- Wakiya, K. → Sakaue, H.A.
- Walachowicz, F. → Aynacioglu, A.S.
- Walder, G., Howorka, F., Stamatovic, A., Rozsa, K., Höpfel, R.A., Märk, T.D.: Photodissociation of neutral argon clusters with visible laser light: new experimental evidence **13**, 179 (1989)
- Walder, G., Margreiter, D., Winkler, C., Grill, V., Rauth, T., Scheier, P., Stamatovic, A., Herman, Z., Foltin, M., Märk, T.D.: Production and stability of oxygen cluster cations and anions, revisited **20**, 201 (1991)
- Walder, G. → Foltin, M.
- Walder, G. → Märk, T.D.
- Walters, E.A., Grover, J.R., Arneberg, D.L., Santandrea, C.J., White, M.G.: Production of  $\text{C}_2\text{H}_4\text{Cl}^+$  by dissociative photoionization of weak molecular complexes in  $\text{C}_2\text{H}_4 + \text{HCl}$  mixtures **16**, 283 (1990)
- Walters, H.R.J. → Whelan, C.T.
- Walters, H.R.J. → Zhang, X.
- Walther, H. → Figger, H.
- Walther, H. → Ketterle, W.
- Wanczek, K.P. → Bamberg, M.
- Wang, C.R.C., Pollack, S., Hunter, J., Alameddini, G., Hoover, T., Cameron, D., Liu, S., Kappes, M.M.: Photoabsorption spectra of  $s^1$ -electron metal clusters **19**, 13 (1991)
- Wang, C.R.C. → Pollack, S.
- Wännström, A. → Villemaes, P.
- Wasserman, B., Martin, T.P.: Computer simulations of photoionization **12**, 173 (1989)
- Wassermann, B., Ekardt, W.: The elastic scattering on jellium clusters **19**, 97 (1991)
- Wästberg, B., Rosén, A.: Calculation of photoionization cross sections of small metal clusters **19**, 71 (1991)
- Wästberg, B., Rosén, A.: Calculation of photoionization cross sections of  $\text{Na}_{2-8}$  and  $\text{K}_{2-8}$  clusters **18**, 267 (1991)
- Wästberg, B., Rosén, A., Ellis, D.E.: First principle calculations of K-edge X-ray absorption near edge spectra of small transition metal dimers **12**, 377 (1989)
- Wästberg, B., Rosén, A., Ellis, D.E.: First principle calculations of K-edge X-ray absorption spectra for small iron and nickel clusters **13**, 153 (1989)
- Wästberg, B. → Rosén, A.
- Weare, J.H. → Garzón, I.L.
- Weber, D.-J. → Seifert, P.
- Weber, R. → Dresch, T.
- Weber, Th., Riedle, E., Neusser, H.J.: Rotationally resolved ultraviolet spectra of benzene-noble gas van der Waals clusters **20**, 43 (1991)
- Weber, W. → Albiez, A.
- Webersinke, M. → Naß, P.
- Wedig, U., Burkhardt, A., Schnering, H.G. v.: Computational chemistry with transputers: a direct SCF program **13**, 377 (1989)
- Weerasinghe, S., Amar, F.G.: Is cluster evaporation statistical? A comparison of simulation results for  $\text{Ar}_{13}$  with exact classical phase space theory **20**, 167 (1991)

- Wei, S., Tzeng, W.B., Castleman, A.W. Jr.: Stable shell structures in hydrogen-bonded complexes **20**, 47 (1991)
- Weidele, H., Franzel, U., Leisner, T., Kreisle, D.: Production of "cold/hot" metal cluster ions: a modified laser vaporization source **20**, 411 (1991)
- Weidenauer, R. → Hoheisel, W.
- Weikert, H.-G., Cederbaum, L.S., Tarantelli, F., Boldyrev, A.I.: On the existence of free doubly negative molecular ions **18**, 299 (1991)
- Weil, K.G. → Hartmann, A.
- Weiner, J. → Bréchnignac, C.
- Weiss, K. → Altenhein, C.
- Weiss, K. → Gao, P.Y.
- Weißbecker, B. → Müller, A.
- Weitzel, K.-M., Booze, J.A., Baer, T.: The metastable formation of di-ethylchloronium ions from ethylchloride dimer ions in a seeded molecular beam **18**, 383 (1991)
- Welge, K.H. → Robra, U.
- Welge, K.H. → Rotke, H.
- Wendt, K. → Keim, M.
- Wendt, K. → Neu, W.
- Wenzel, L. → Arvanitis, D.
- Werth, G. → Gerz, Ch.
- Werth, G. → Hermann, A.
- Werth, G. → Hubrich, M.
- Werth, G. → Roth, A.
- Wertheim, G.K.: Electronic structure of metal clusters **12**, 319 (1989)
- Westgate, C.R. → McHugh, K.M.
- Whaley, K.B. → Rama Krishna, M.V.
- Whelan, C.T., Walters, H.R.J., Hanssen, J., Dreizler, R.M.: The electron impact ionisation of  $H(1s)$  in coplanar asymmetric geometry **14**, 85 (1989)
- Whelan, C.T. → Zhang, X.
- White, M.G. → Walters, E.A.
- Wiesemann, K. → Jogwich, M.
- Wigger, J. → Meierkord, W.
- Wilsdorf, D. → Gerz, Ch.
- Wilsdorf, D. → Roth, A.
- Wilson, M. → Dembczyński, J.
- Windholz, L.: The sodium  $D_2$ -line in crossed electric and magnetic fields **15**, 87 (1990)
- Windholz, L.: The sodium  $D_2$ -line in parallel electric and magnetic fields **14**, 361 (1989)
- Windholz, L., Jäger, H., Musso, M., Zerza, G.: Laserspectroscopic investigations of the lithium- $D$ -lines in magnetic fields **16**, 41 (1990)
- Windholz, L., Zerza, G., Pichler, G., Heß, B.: Visible-laser-induced chemiluminescence of NaHg red excimer bands **18**, 373 (1991)
- Winkler, C. → Walder, G.
- Winkler, R. → Sawatzky, G.
- Winkler, R. → Seifert, P.
- Winter, B. → Charlé, K.P.
- Winter, B.J., Klots, T.D., Parks, E.K., Riley, S.J.: Adsorbate binding energies for ammonia on cobalt and nickel clusters **19**, 381 (1991)
- Winter, B.J., Klots, T.D., Parks, E.K., Riley, S.J.: Chemical identification of icosahedral structure for cobalt and nickel clusters **19**, 375 (1991)
- Winter, H.: Population of Nal-terms in grazing ion surface collisions **17**, 109 (1990)
- Winter, H. → Marsch, C.
- Winter, M. → Buck, U.
- Wintermeyer, G., Dangendorf, V., Schmidt-Böcking, H., Kambara, T., Mokler, P.H., Schuch, R., Tseruya, I.: Search for interference structures in the quasimolecular X-ray- and K-vacancy production in close collisions of 462 MeV hydrogen-like Kr ions on Mo solid targets **17**, 145 (1990)
- Wintgen, D.: Dynamical symmetries of a hydrogen atom in a circularly polarized electromagnetic field **18**, 125 (1991)
- Wiorkowski, P. → Falęcki, W.
- Witte, R. → Campbell, E.E.B.
- Wolf, J.P. → Blanc, J.
- Wolf, K., Kuge, H.-H., Kleiner, K.: Master equation calculations of cluster formation in supersonic jets **18**, 409 (1991)
- Wolff, B. → Rottke, H.
- Wörmer, J., Möller, T.: On the nature of bulk and surface excitations in Argon clusters **20**, 39 (1991)
- Wörmer, J. → Stapelfeldt, J.
- Wörner, A. → Uhrig, A.
- Wöste, L. → Blanc, J.
- Wöste, L. → Rivoal, J.C.
- Wucher, A. → Franzreb, K.
- Wuilleumier, F.J. → Carré, B.
- Wülfert, S. → Leutwyler, S.
- Wülfert, S. → Schütz, M.
- Y**
- Yagishita, A. → Sakaue, H.A.
- Yamaguchi, T., Fujima, N.: Shell structure of electronic states of Cu clusters **12**, 369 (1989)
- Yamaguchi, T. → Fujima, N.
- Yang, Y.A. → Bloomfield, L.A.
- Yencha, A.J., Ganz, J., Ruf, M.-W., Hotop, H.: Penning ionization electron spectrometry of hydrogen chloride **14**, 57 (1989)
- Yencha, A.J. → Bregel, T.
- Yoshizaki, F., Tanaka, N., Mihama, K.: Magnetic properties of nm-sized iron crystallites and clusters embedded in vacuum-deposited MgO films **19**, 259 (1991)
- Yu, H. → Doverstål, M.
- Z**
- Zacharias, H. → Robra, U.
- Zajfman, J. → Vager, Z.
- Zandbergen, H.W. → Ruitenbeek, J.M. van
- Zaremba, J. → Jetzke, S.
- Zeiske, K. → Rinkelf, R.-H.
- Zepalova, M.L.: Polarization potential in three particle theory **17**, 245 (1990)
- Zerza, G. → Windholz, L.
- Zhang, X., Whelan, C.T., Walters, H.R.J.: Electron impact ionization of the noble gases in coplanar symmetric geometry over the energy range 100 to 1000 eV **18**, 309 (1991)
- Zhang, Y., Ross, A.W., Fink, M.: Electron correlation and charge density study of  $N_2$  and  $O_2$  by high energy electron scattering **18**, 163 (1991)
- Zhankadamova, A.M. → Insepov, Z.A.
- Zhao, J. → Montano, P.A.
- Zheludkov, S.V. → Insepov, Z.A.
- Zhenyang, L. → Mingos, D.M.P.
- Ziegler, G., Kumar, S.V.K., Rädle, M., Jung, K., Ehrhardt, H., Bergmann, K., Meyer, H.D.: Rotational excitation by electron impact: a state selective study using laser-induced fluorescence **16**, 207 (1990)
- Ziemann, P. → Farley, R.W.
- Ziemann, P.J., Castleman, A.W. Jr.: Mass spectrometric study of MgO clusters produced by the gas aggregation technique **20**, 97 (1991)
- Zimmerer, G. → Stapelfeldt, J.
- Zuzikov, A.D. → Vidolova-Angelova, E.P.
- X**
- Xhie, J. → Kaiser, B.
- Xhie, J. → Müller, U.
- Xia, P. → Bloomfield, L.A.
- Xia, P. → Bucher, J.P.
- Xie, J. → Northby, J.A.
- Xu, E.Y. → Eichmann, U.
- Xu, J.Q.: New interpretation of the Ag  $L$ -series x-ray spectrum **13**, 25 (1989)
- Xue-Jian, Y. → Leisner, T.

M

L

D

9

01

I



